

[illegible]

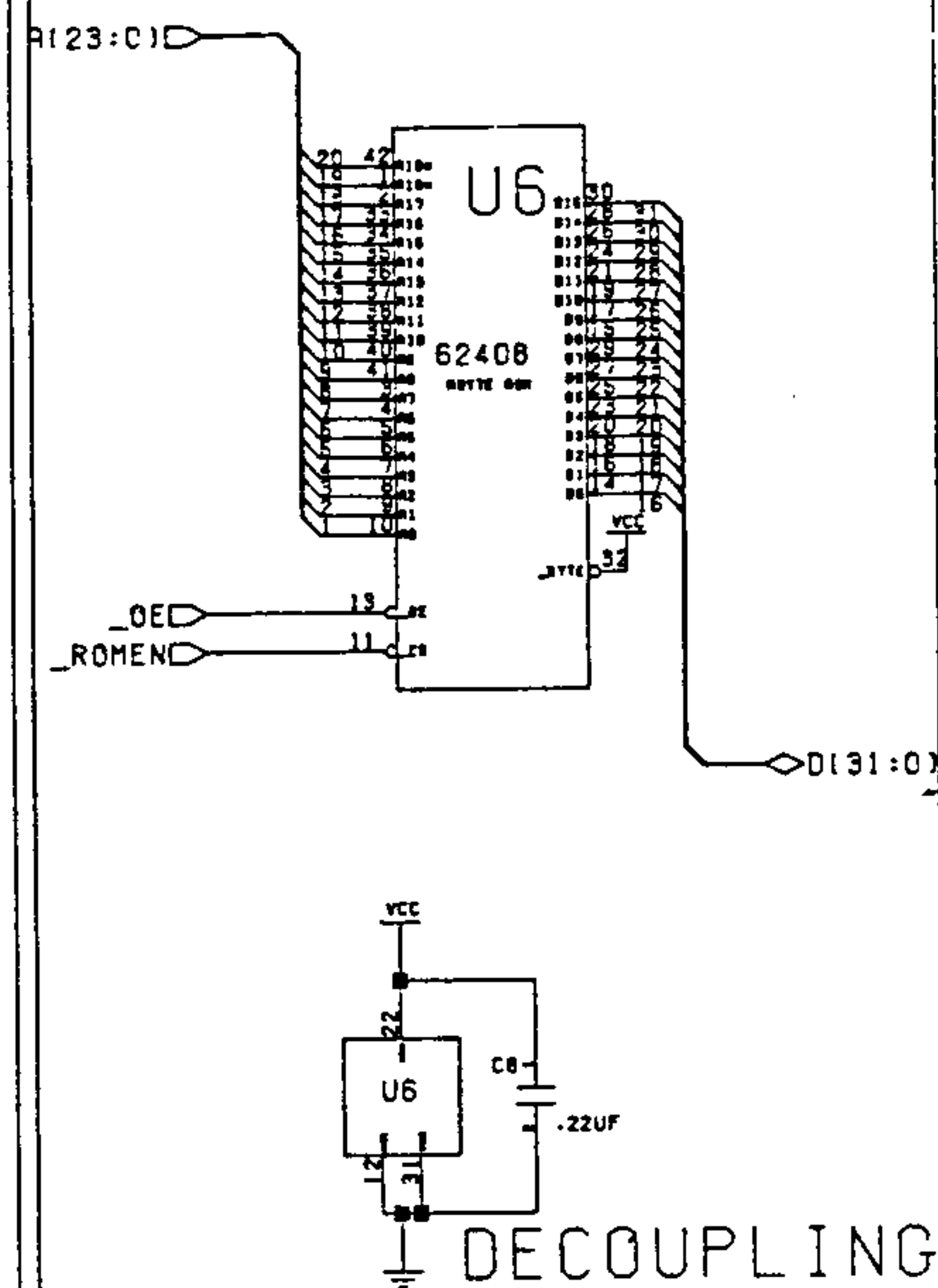
REF	TYPE	DESCRIPTION	PAGE
CN1	DB9P	MOUSE JOYSTICK 1	5
CN2	DB9P	MOUSE JOYSTICK 2	5
CN3	DB9F	INTERNAL AUDIO IN/OUT	5
CN4	DB9F	INTERNAL AUDIO IN/OUT	5
CN5	DB25S	EXTERNAL FLOPPY	6
CN6	DB25P	R232 SERIAL PORT	7
CN7	DB25S	PARALLEL PRINTER PORT	7
CN8	DB25D	POWER SUPPLY CONNECTOR	7
CN9	DB25D	VIDEO OUTPUT	7
CN10	DB15	COMPOSITE VIDEO	6
CN11	DB15	INTERNAL FLOPPY SIGNALS	6
CN12	DB15	INTERNAL FLOPPY POWER	6
CN13	DB15	KEYBOARD MEMORANE	9
CN14	DB15	KEYBOARD MEMORANE	9
CN15	DB15	KEYBOARD MEMORANE	9
CN16	DB15	KEYBOARD MEMORANE	9
CN17	DB15	KEYBOARD MEMORANE	9
CN18	DB15	KEYBOARD MEMORANE	9
CN19	DB15	KEYBOARD MEMORANE	9
CN20	DB15	KEYBOARD MEMORANE	9
CN21	DB15	KEYBOARD MEMORANE	9
CN22	DB15	KEYBOARD MEMORANE	9
CN23	DB15	KEYBOARD MEMORANE	9
CN24	DB15	KEYBOARD MEMORANE	9
CN25	DB15	KEYBOARD MEMORANE	9
CN26	DB15	KEYBOARD MEMORANE	9
CN27	DB15	KEYBOARD MEMORANE	9
CN28	DB15	KEYBOARD MEMORANE	9
CN29	DB15	KEYBOARD MEMORANE	9
CN30	DB15	KEYBOARD MEMORANE	9
CN31	DB15	KEYBOARD MEMORANE	9
CN32	DB15	KEYBOARD MEMORANE	9
CN33	DB15	KEYBOARD MEMORANE	9
CN34	DB15	KEYBOARD MEMORANE	9
CN35	DB15	KEYBOARD MEMORANE	9
CN36	DB15	KEYBOARD MEMORANE	9
CN37	DB15	KEYBOARD MEMORANE	9
CN38	DB15	KEYBOARD MEMORANE	9
CN39	DB15	KEYBOARD MEMORANE	9
CN40	DB15	KEYBOARD MEMORANE	9
CN41	DB15	KEYBOARD MEMORANE	9
CN42	DB15	KEYBOARD MEMORANE	9
CN43	DB15	KEYBOARD MEMORANE	9
CN44	DB15	KEYBOARD MEMORANE	9
CN45	DB15	KEYBOARD MEMORANE	9
CN46	DB15	KEYBOARD MEMORANE	9
CN47	DB15	KEYBOARD MEMORANE	9
CN48	DB15	KEYBOARD MEMORANE	9
CN49	DB15	KEYBOARD MEMORANE	9
CN50	DB15	KEYBOARD MEMORANE	9
CN51	DB15	KEYBOARD MEMORANE	9
CN52	DB15	KEYBOARD MEMORANE	9
CN53	DB15	KEYBOARD MEMORANE	9
CN54	DB15	KEYBOARD MEMORANE	9
CN55	DB15	KEYBOARD MEMORANE	9
CN56	DB15	KEYBOARD MEMORANE	9
CN57	DB15	KEYBOARD MEMORANE	9
CN58	DB15	KEYBOARD MEMORANE	9
CN59	DB15	KEYBOARD MEMORANE	9
CN60	DB15	KEYBOARD MEMORANE	9
CN61	DB15	KEYBOARD MEMORANE	9
CN62	DB15	KEYBOARD MEMORANE	9
CN63	DB15	KEYBOARD MEMORANE	9
CN64	DB15	KEYBOARD MEMORANE	9
CN65	DB15	KEYBOARD MEMORANE	9
CN66	DB15	KEYBOARD MEMORANE	9
CN67	DB15	KEYBOARD MEMORANE	9
CN68	DB15	KEYBOARD MEMORANE	9
CN69	DB15	KEYBOARD MEMORANE	9
CN70	DB15	KEYBOARD MEMORANE	9
CN71	DB15	KEYBOARD MEMORANE	9
CN72	DB15	KEYBOARD MEMORANE	9
CN73	DB15	KEYBOARD MEMORANE	9
CN74	DB15	KEYBOARD MEMORANE	9
CN75	DB15	KEYBOARD MEMORANE	9
CN76	DB15	KEYBOARD MEMORANE	9
CN77	DB15	KEYBOARD MEMORANE	9
CN78	DB15	KEYBOARD MEMORANE	9
CN79	DB15	KEYBOARD MEMORANE	9
CN80	DB15	KEYBOARD MEMORANE	9
CN81	DB15	KEYBOARD MEMORANE	9
CN82	DB15	KEYBOARD MEMORANE	9
CN83	DB15	KEYBOARD MEMORANE	9
CN84	DB15	KEYBOARD MEMORANE	9
CN85	DB15	KEYBOARD MEMORANE	9
CN86	DB15	KEYBOARD MEMORANE	9
CN87	DB15	KEYBOARD MEMORANE	9
CN88	DB15	KEYBOARD MEMORANE	9
CN89	DB15	KEYBOARD MEMORANE	9
CN90	DB15	KEYBOARD MEMORANE	9
CN91	DB15	KEYBOARD MEMORANE	9
CN92	DB15	KEYBOARD MEMORANE	9
CN93	DB15	KEYBOARD MEMORANE	9
CN94	DB15	KEYBOARD MEMORANE	9
CN95	DB15	KEYBOARD MEMORANE	9
CN96	DB15	KEYBOARD MEMORANE	9
CN97	DB15	KEYBOARD MEMORANE	9
CN98	DB15	KEYBOARD MEMORANE	9
CN99	DB15	KEYBOARD MEMORANE	9
CN100	DB15	KEYBOARD MEMORANE	9
CN101	DB15	KEYBOARD MEMORANE	9
CN102	DB15	KEYBOARD MEMORANE	9
CN103	DB15	KEYBOARD MEMORANE	9
CN104	DB15	KEYBOARD MEMORANE	9
CN105	DB15	KEYBOARD MEMORANE	9
CN106	DB15	KEYBOARD MEMORANE	9
CN107	DB15		

SIGNAL	DESCRIPTION (AREA)	PAGES
28MHz	28.63636 MHZ MASTER CLOCK	
7MHz	7.15009 MHZ PROCESSOR CLOCK	
A[23:1]	PROCESSOR ADDRESS BUS (160000)	
ACK	DATA ACKNOWLEDGE (PPARAL1) PORT	
AS	ADDRESS STROBE (160000)	
AUDIN	AUDIO INPUT (RS232 PORT)	
AUDOUT	AUDIO OUTPUT (RS232 JACK)	
BEF	BUS ERROR (160000)	
BG	BUS GRANT (160000)	
BRACK	BUS GRANT ACKNOWLEDGE (160000)	
BTSS	BIT TEST SIGNATURE (CHIPS)	
BLIT	CHIP MEMORY ADDRESS (CHIPS)	
BR	BUS REQUEST (160000)	
BU5Y	DEVICE BUSY (PPARAL1) PORT	
CASL/U	COLUMN ADDRESS STROBE (DRAM)	
CLK/CKCD	CLOCK / QUADRATURE (CHIPS)	
CDAC	7.15009 MHZ QUADRATURE CLOCK (CHIPS)	
CMNG	MEDIA CHANGE (FLOPPY)	
CLKD/WR	CLOCK LINE CLOCK (50 / WRITE (RTC)	
CMMP	MONOCHROME COMPOSITE VIDEO (VIDEO)	
CSYNC	COMPOSITE SYNC (VIDEO)	
CTS	CLEAR TO SEND (RS232 PORT)	
D[15:0]	PROCESSOR DATA BUS (160000)	
DIR	STEP DIRECTION (FLOPPY)	
DISK	DISK READ DATA (FLOPPY)	
DRWD	DISK WRITE DATA (FLOPPY)	
DWNE	DISK WRITE ENABLE (FLOPPY)	
DMPL	CHIP DMA REQUEST LINE (CHIPS)	
DRAR[8:0]	DRAM ADDRESS BUS (DRAM)	
DRD[15:0]	DRAM DATA BUS (DRAM)	
DSR	DATA SET READY (RS232 PORT)	
DISACK	DATA TRANSFER ACKNOWLEDGE (160000)	
DIR	DATA TERMINAL READY (RS232 PORT)	
E	PERIPHERAL ENABLE CLOCK (160000)	
EXTICK	EXPANSION PRESENT / RTC TICK	
FX[2:0]	FUNCTION CODE (160000)	
FX[20:1]	FXIP FUNCTION CODE (CHIPS)	
HY	PROCESSOR HALT (160000)	
HSYNC	HORIZONTAL SYNC (VIDEO)	
INDEX	INDEX PULSE (FLOPPY)	
INT[2,3,6]	INTERRUPT REQUEST (CHIPS)	
LDRESET	I/O RESET	
IP[12:0]	INTERFERENCE PRIORITY LEVEL (160000)	
KEYBCLK	KEYBOARD CLOCK (KEYBOARD)	
KEYDATA	KEYBOARD DATA (KEYBOARD)	
KRRESET	KEYBOARD RESET (KEYBOARD)	
LDS/VDS	UPPER / LOWER DATA STORES (160000)	
LED	POWER ON LED / AUDIO FILTER DISABLE	
LEFT/R/IGHT	LEFT RIGHT AUDIO (AUDIO)	

[illegible][illegible]

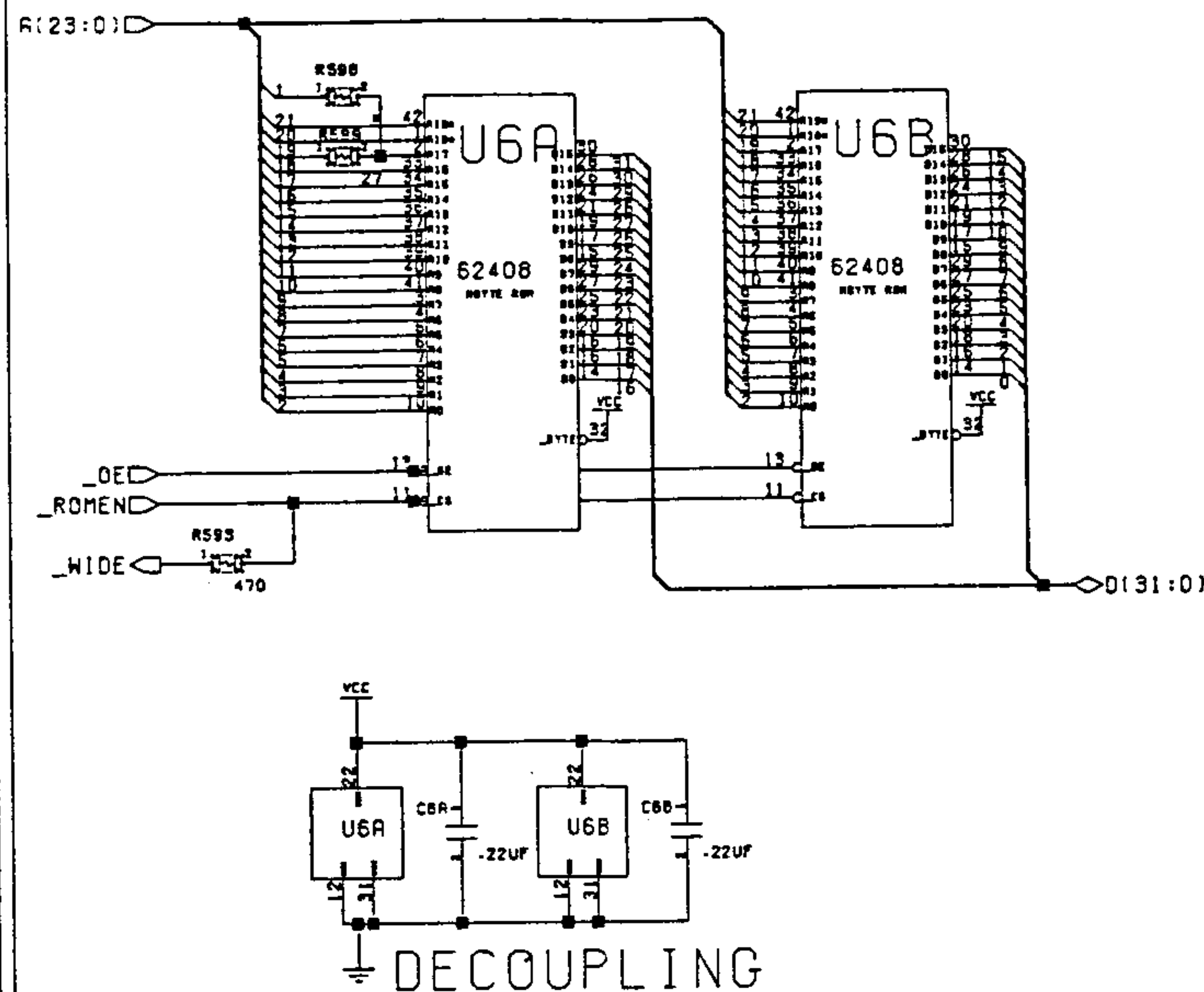
REF	CHIP	DESCRIPTION	PAGE
U1	68000	68000 PROCESSOR 16MHZ	2
U2	8374	ALICE (AP AGNUS)	2
U3	8362	PAULA	4
U4	424	LISA IAA DENISE	5
U5	F023A	AA GAYLE (CAB ASIC)	2, 8, 11
U5	ASST	ROM 512KX16 150 NS	10
U7-B	28F0	RAMGA V16 1 MHZ	7
U10-B	28F0	FLASH MEMORY 128KXB	10
U11	Q31455	CNT V16	4
U13	56M005	RAMICA KEYBOARD CPU	3
U49	PS151	LOW VOLTAGE SENSE I/C	9
U15	LF347	BMOS OP-AMP	5
	T1093	BMOS OP-AMP	MIT
U16-17	ASST	DRAM 256KX16 80NS	3
U18-19	Q31455	OP V16 16-BIT OPTIONAL	4
U20	1331???	BUOGE (ASIC)	3
U28	1488	EIA LINE DRIVER	7
U29	1489	EIA LINE RECEIVER	7
U30	BT101	TRIPLE 8-BIT VIDEO DAC	4
X1	OSC	TTL 28.63536 MHZ NTC	2
	OSC	TTL 28.37512 MHZ PAL	MIT
Y451	XIAL	4.43619MHZ PAL BURST	4
Y621	XIAL	3MHZ CERAMIC RESONATOR	9
X2	ASST	PAL VIDEO MODULATOR	4
	ASST	NTSC VIDEO MODULATOR	4

## 16-BIT ROM



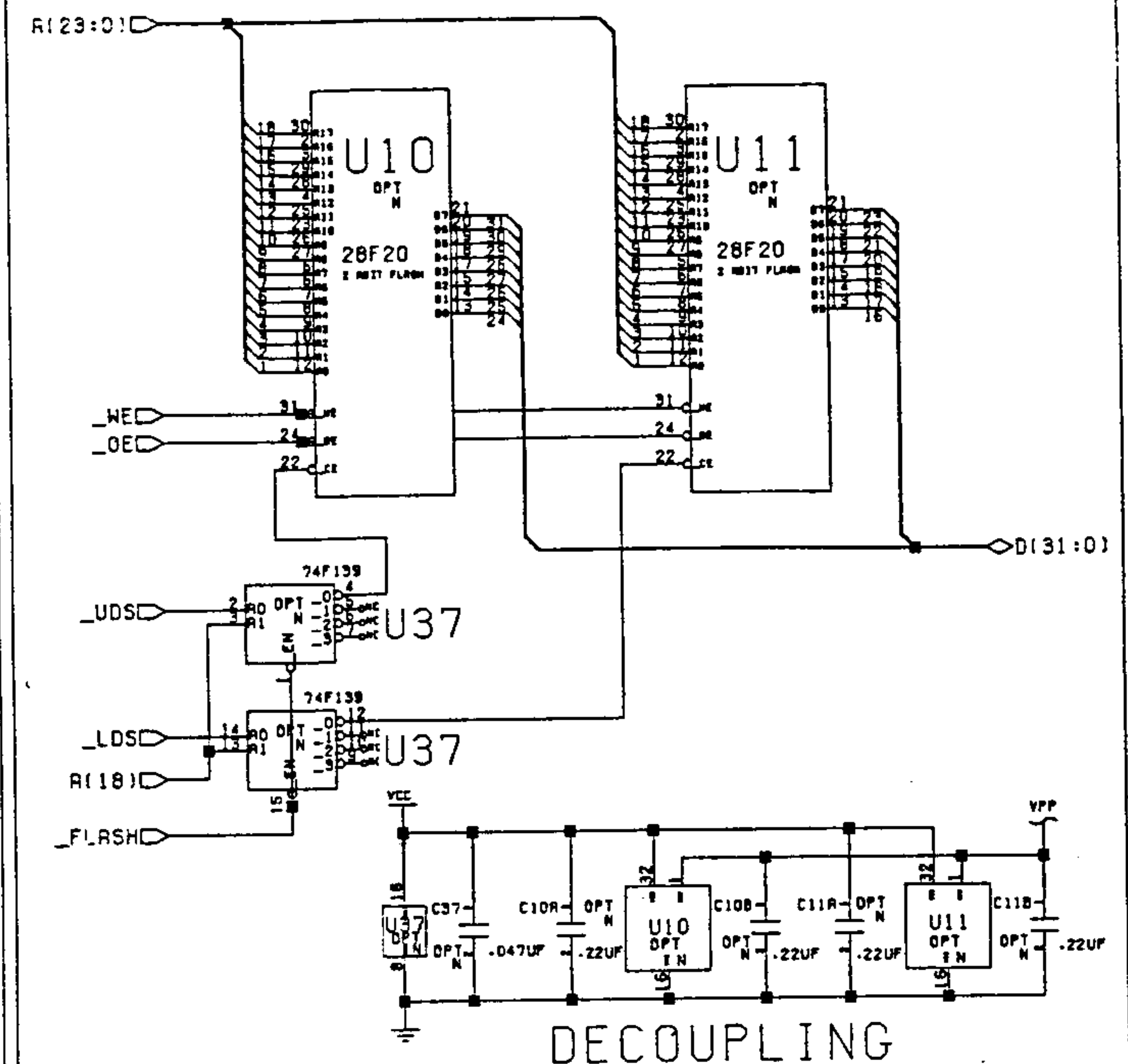
IF ROM16="YES"

## 32-BIT ROM



IF ROM32="YES"

## FLASH MEMORY

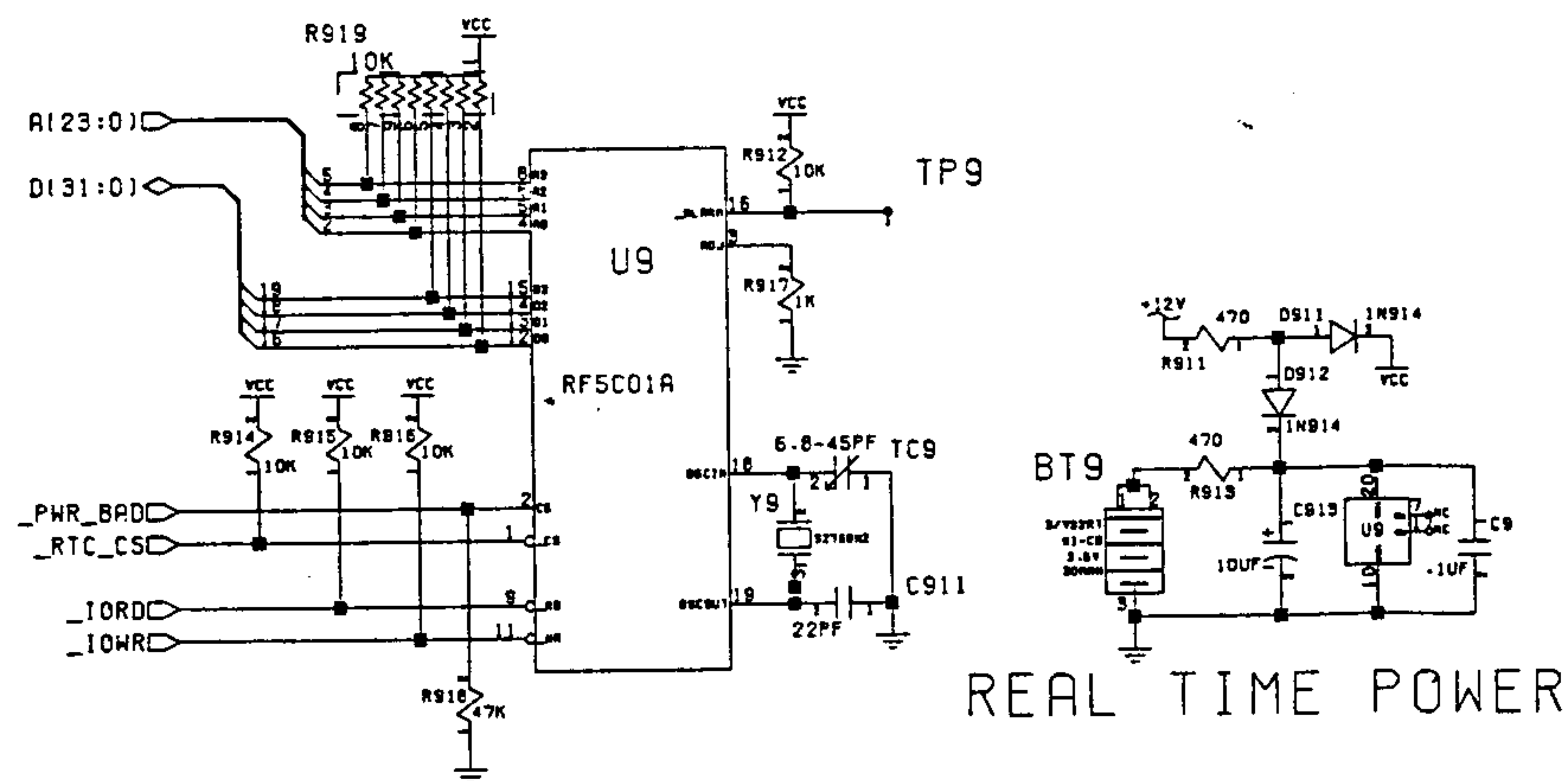


IF FLASH="YES"

16 AND 32-BIT SOCKETS MAY OVERLAP!

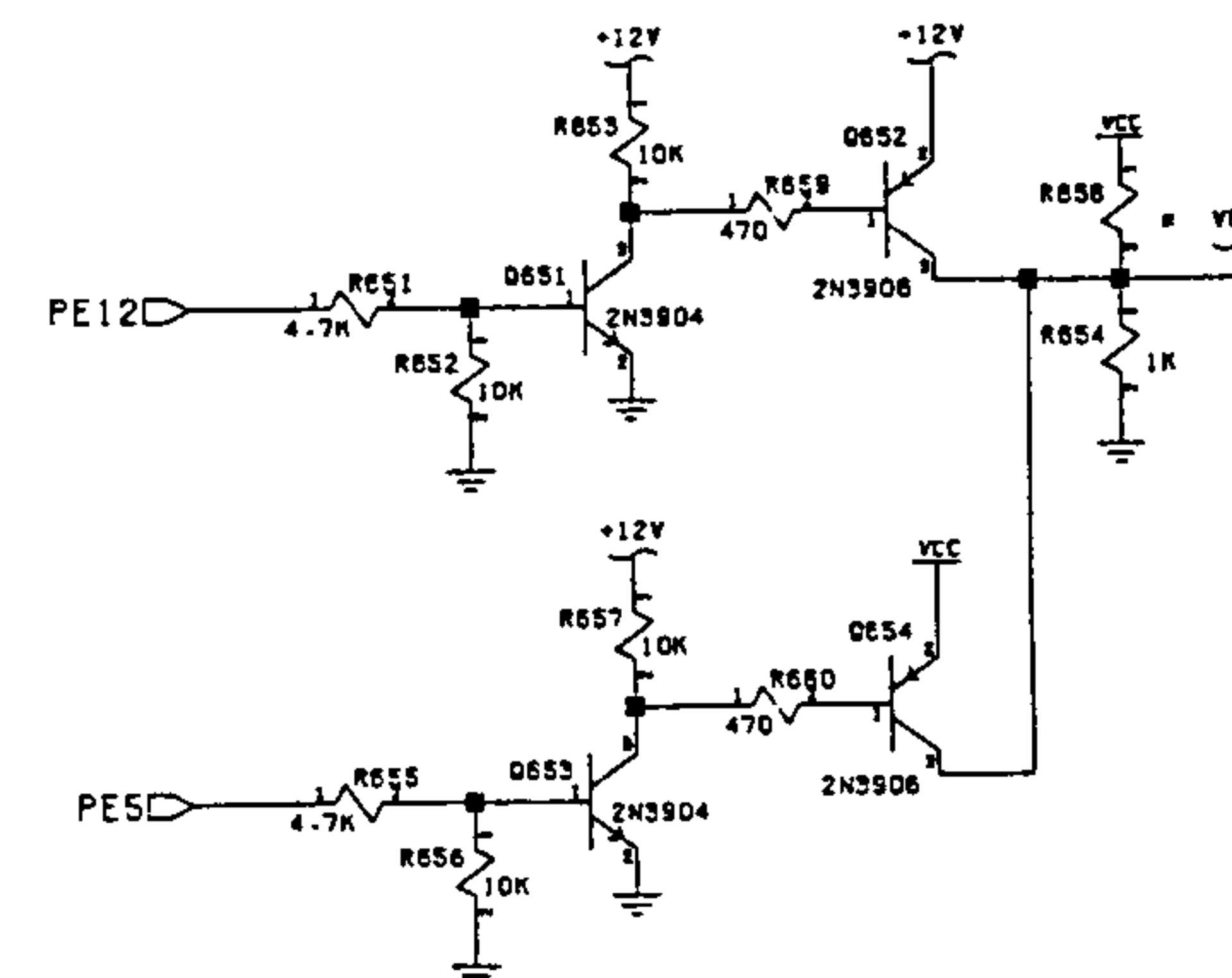
## OPTIONAL FLASH MEMORY

## REAL TIME CLOCK



IF RTC="YES"

## PROGRAMMING VOLTAGE



OPTIONAL REAL-TIME CLOCK/CALENDAR

A1200 REV 1->1D PCB

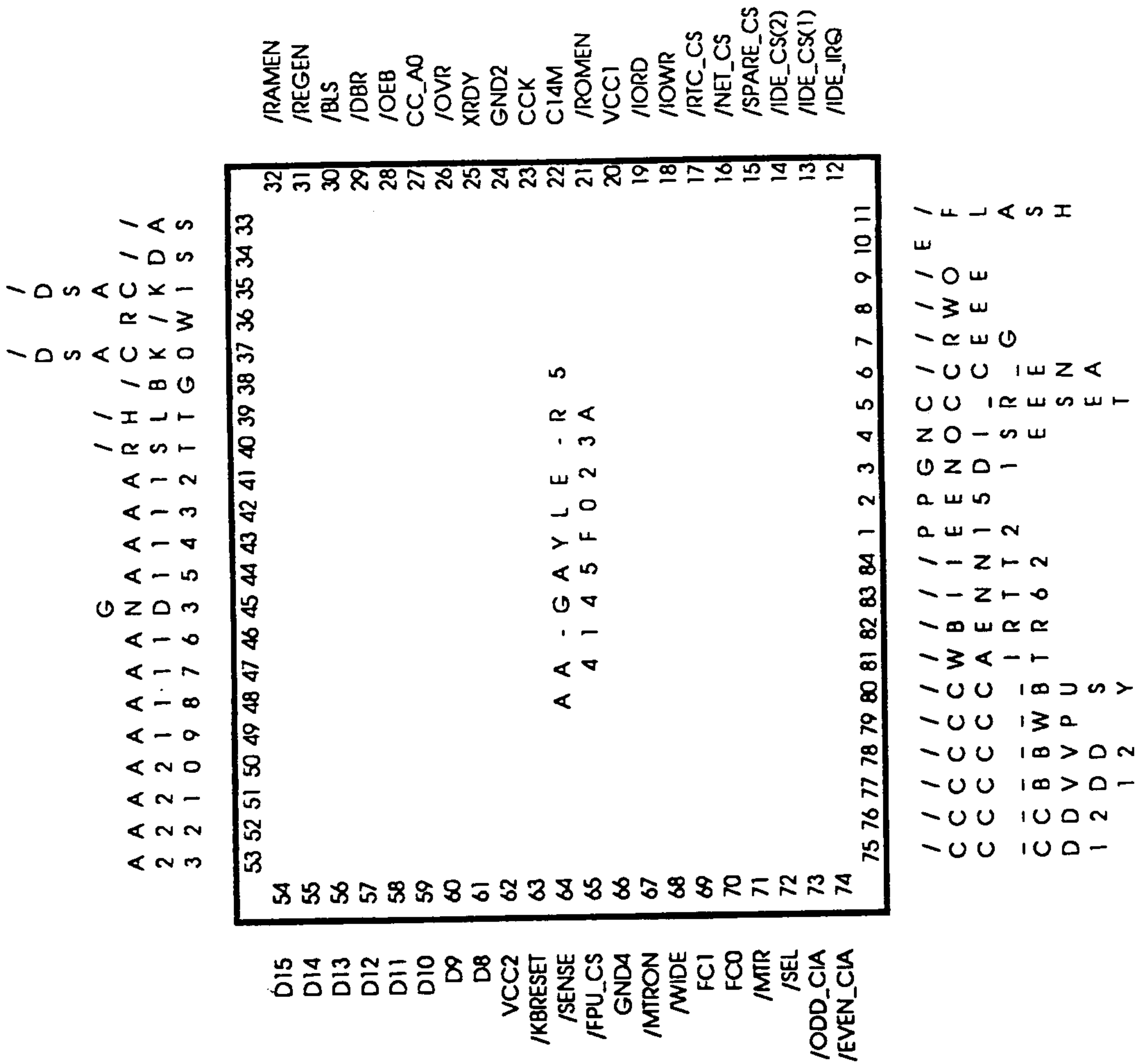


Figure 5-5. AA-GAYLE

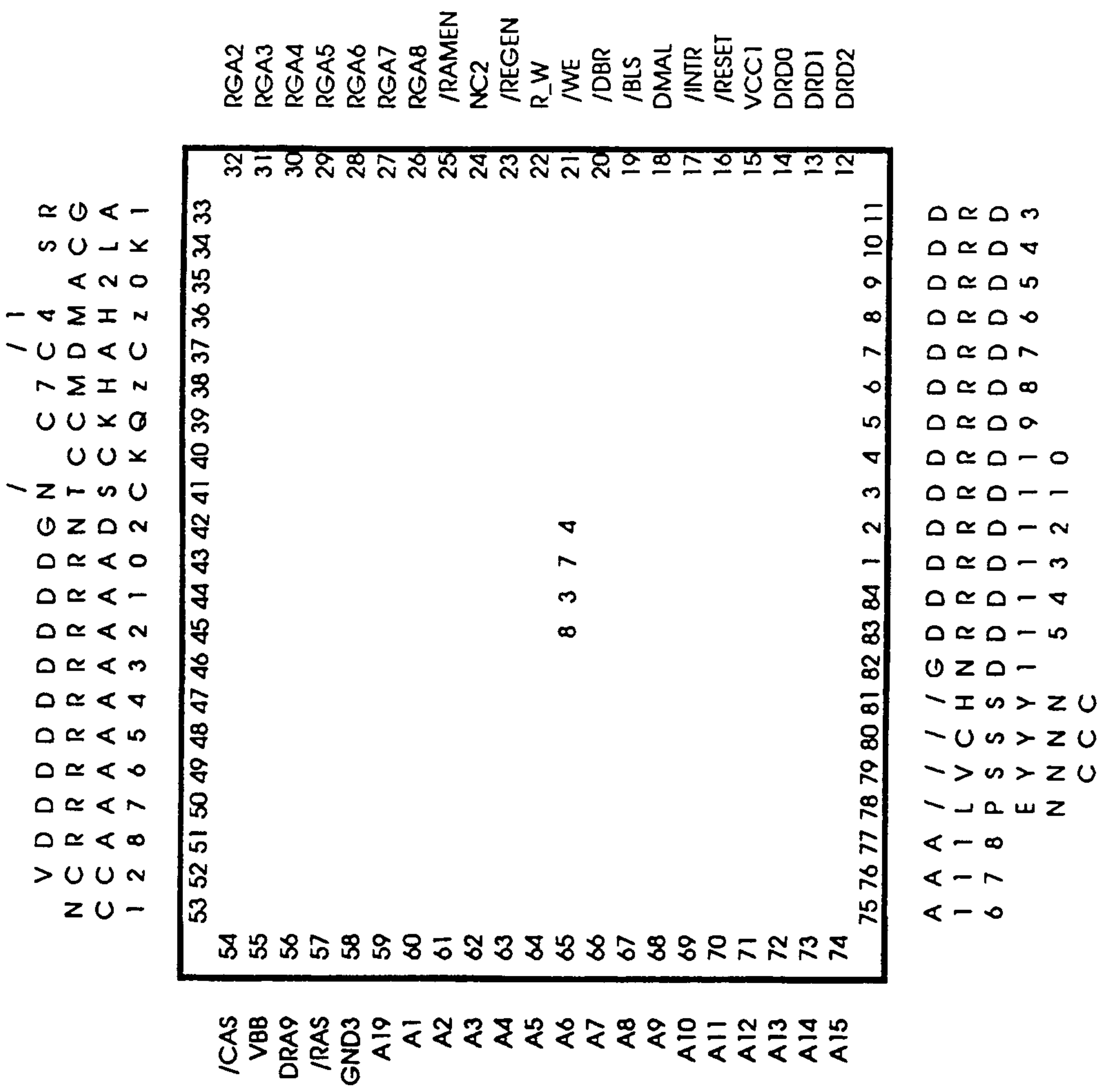


Figure 5-3. ALICE

[illegible]

D(31:0) 

A(23:0) 

FC(2:0) 



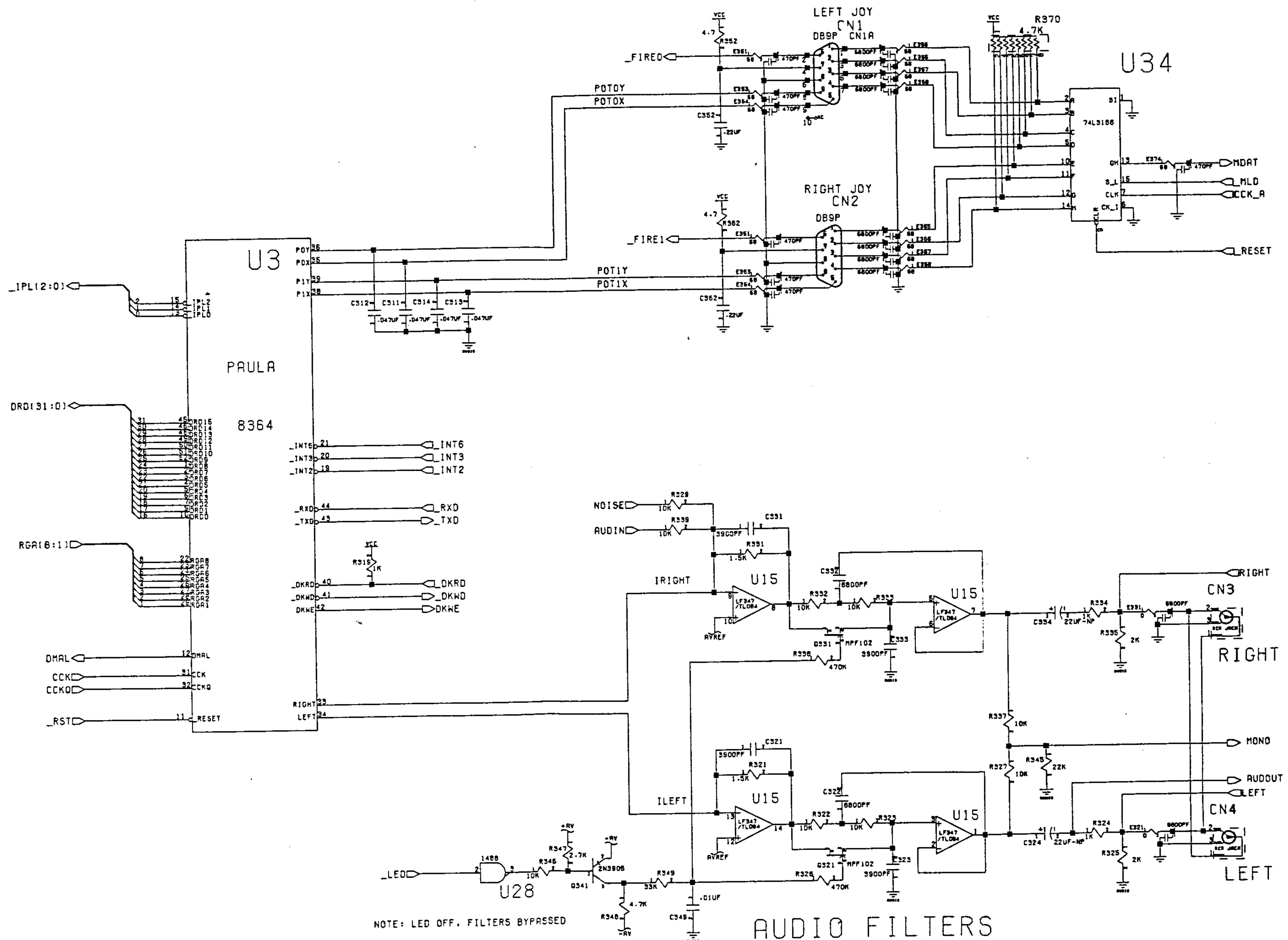
NOTE: VARIOUS COMPONENTS ARE FOR EMI CONTROL  
AND MAY BE LOADED WITH FUNNY THINGS...







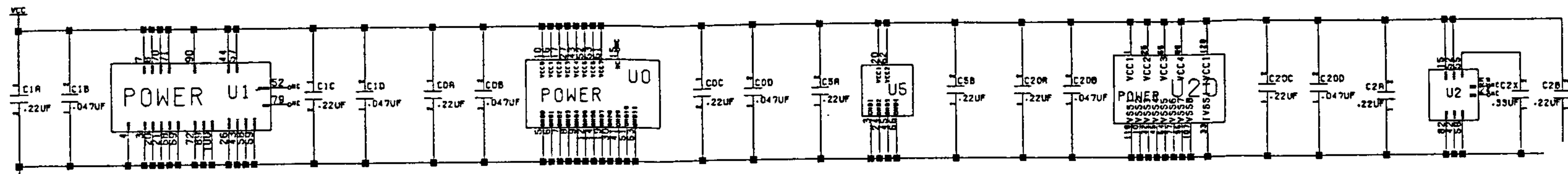
# MOUSE/JOYSTICK PORTS



NOTE: LED OFF. FILTERS BYPASSED

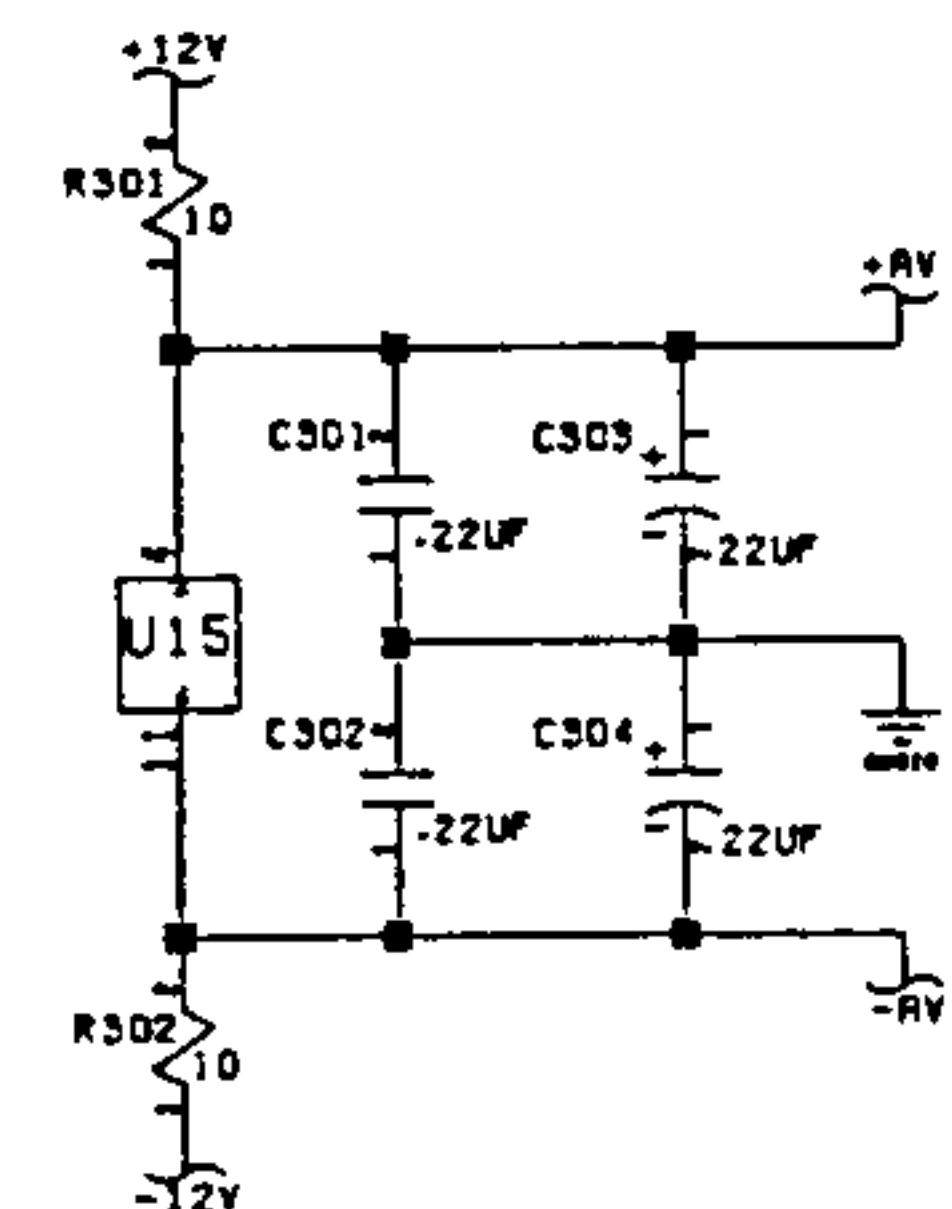
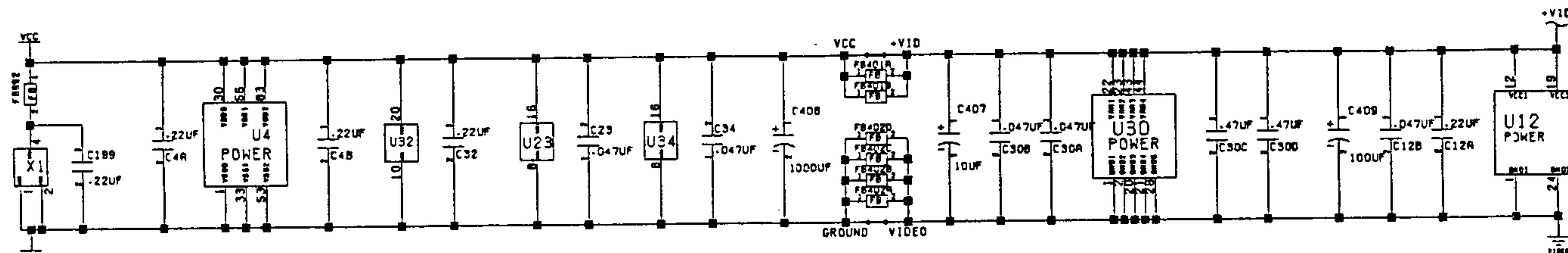
## AUDIO FILTERS

# GENERAL DECOUPLING



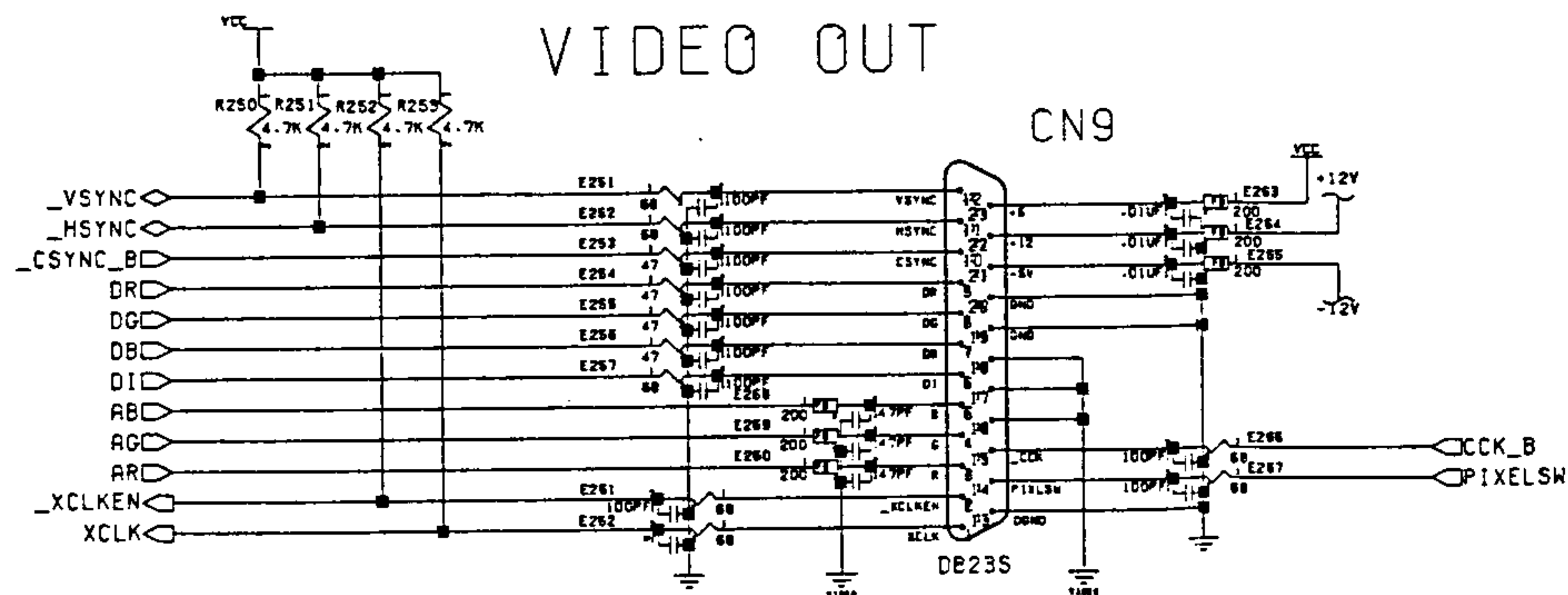
# VIDEO DECOUPLING

# AUDIO DECOUPLING

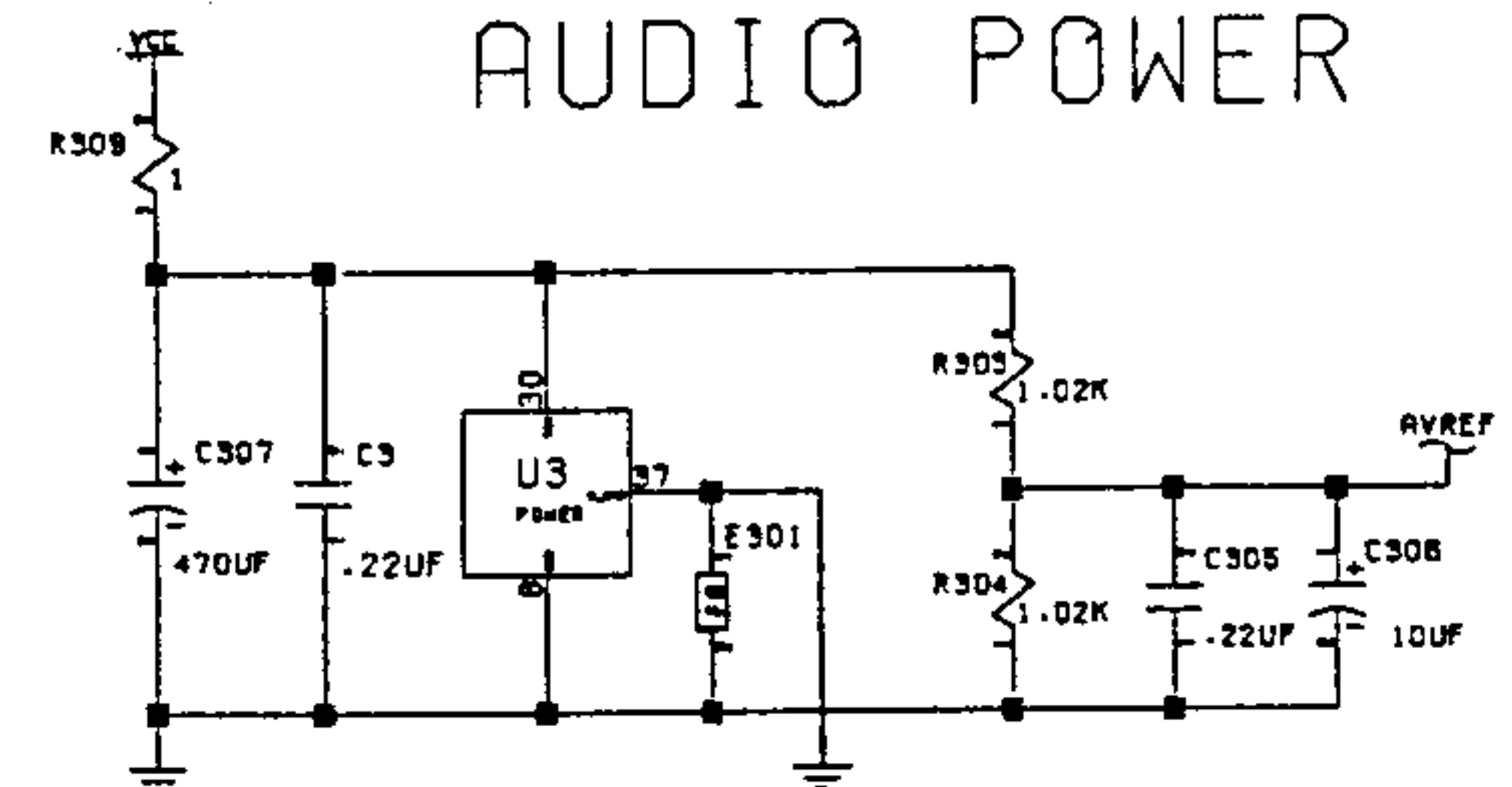


NOTE: AS OF REV 1C, LOGIC AND VIDEO GROUND AND POWER ARE THE SAME NET, BUT ROUTED DISCRETELY EXCEPT AT DAC1  
ALSO ADDED C30C AND C30D FOR OVERKILL DAC DECOUPLING.

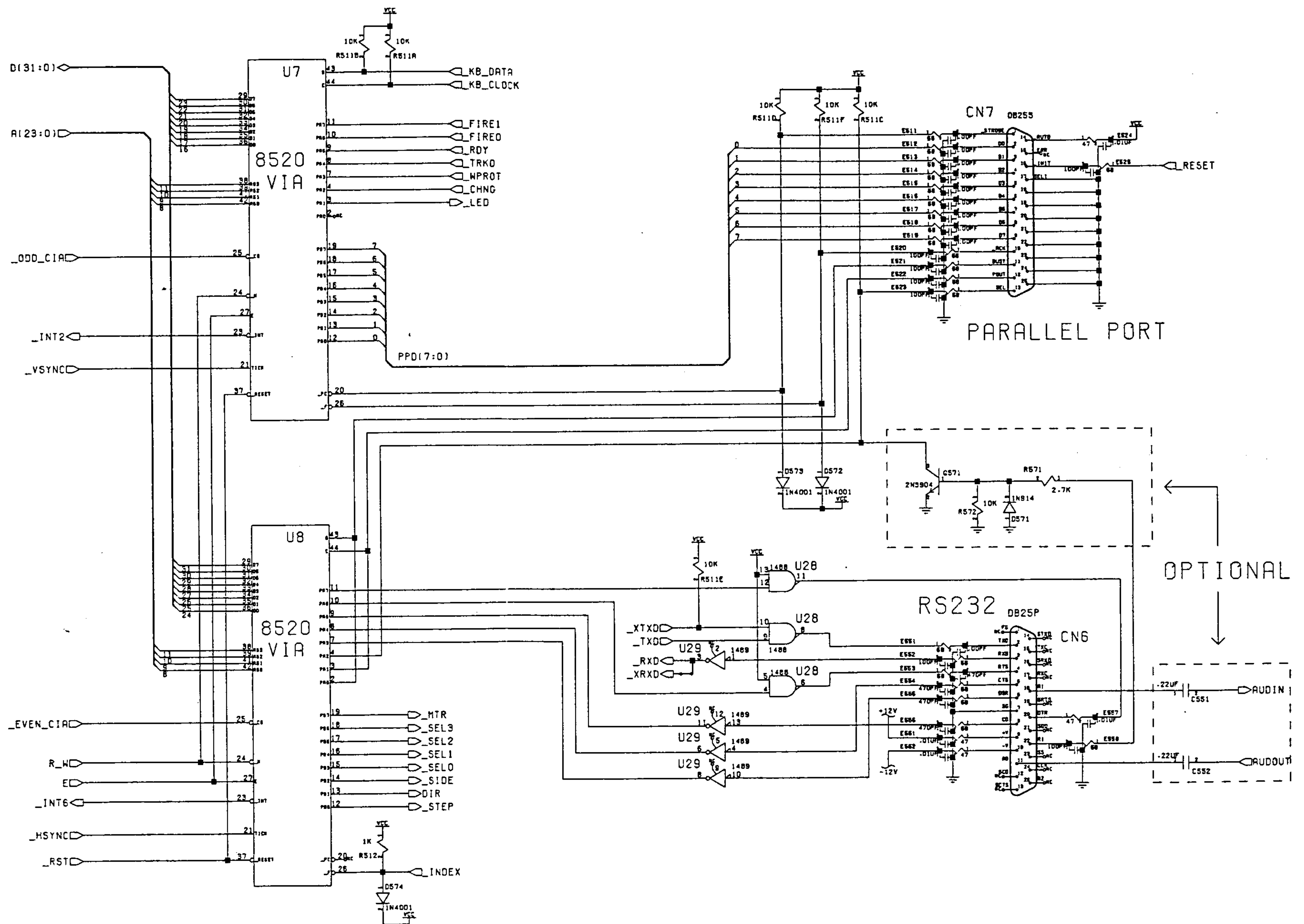
# VIDEO OUT



# AUDIO POWER



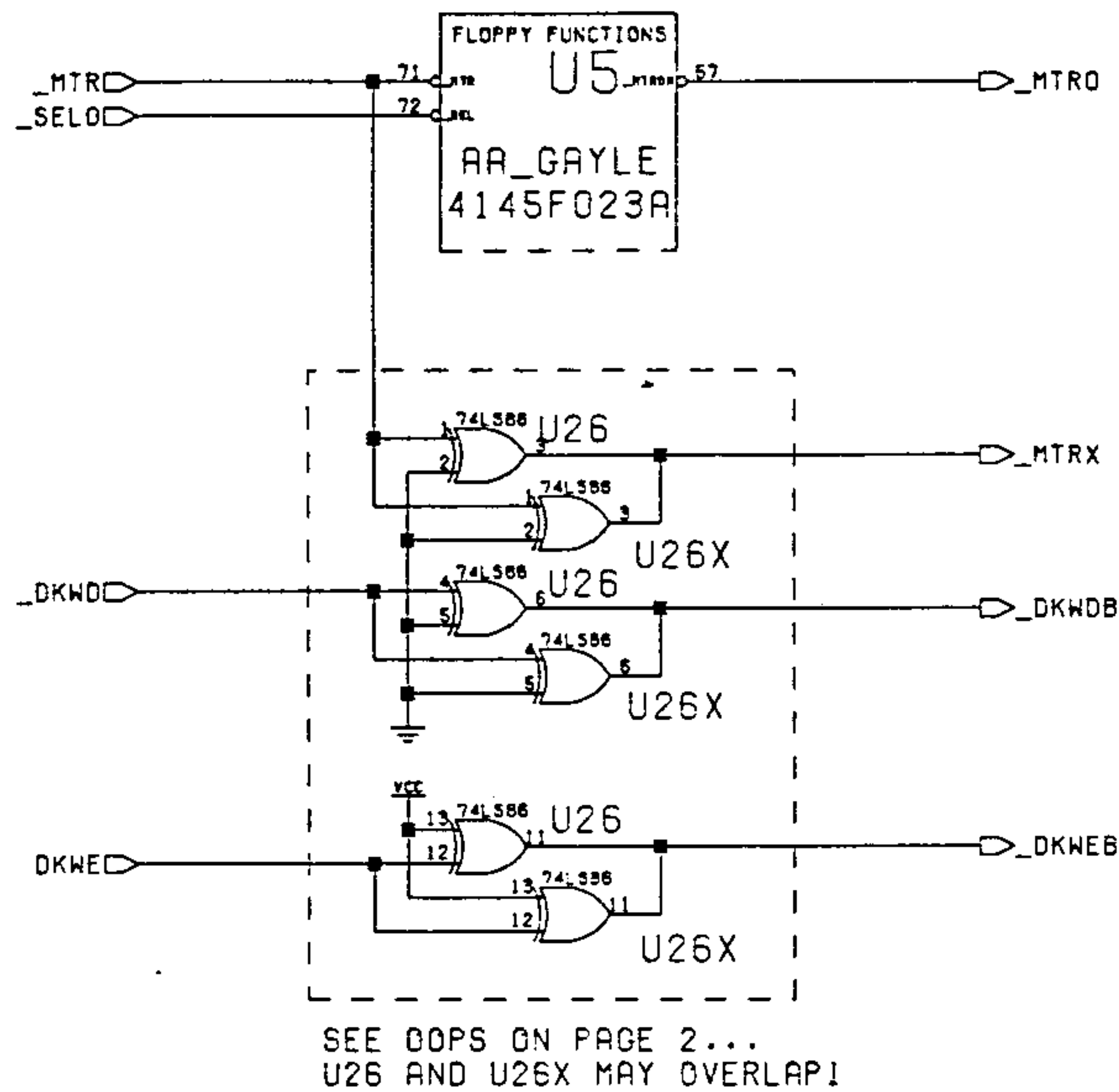
NOTE: GROUND INTERCONNECTION NEAR AUDIO JACKS.



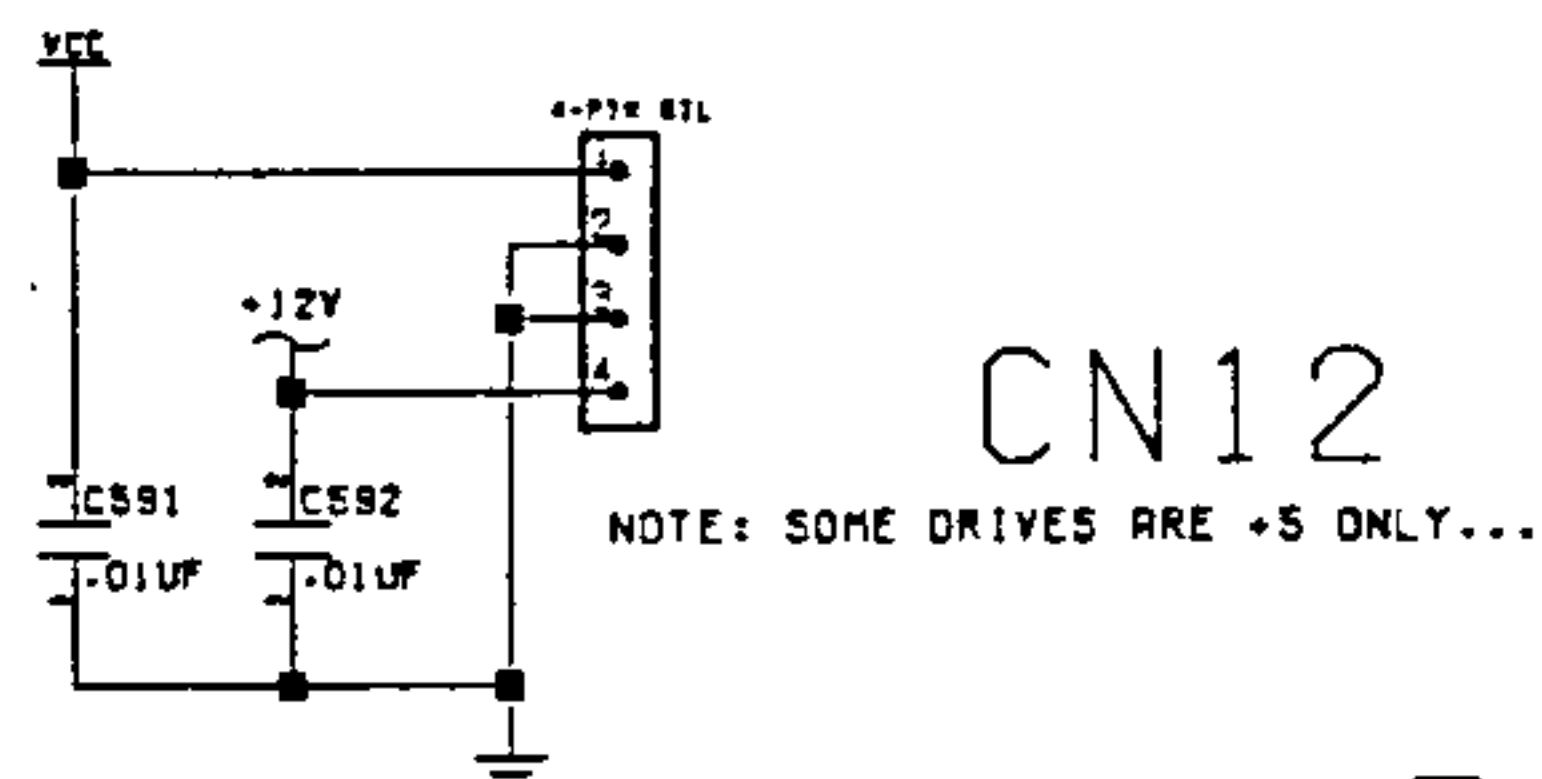
A1200 REV 1->1D PCB



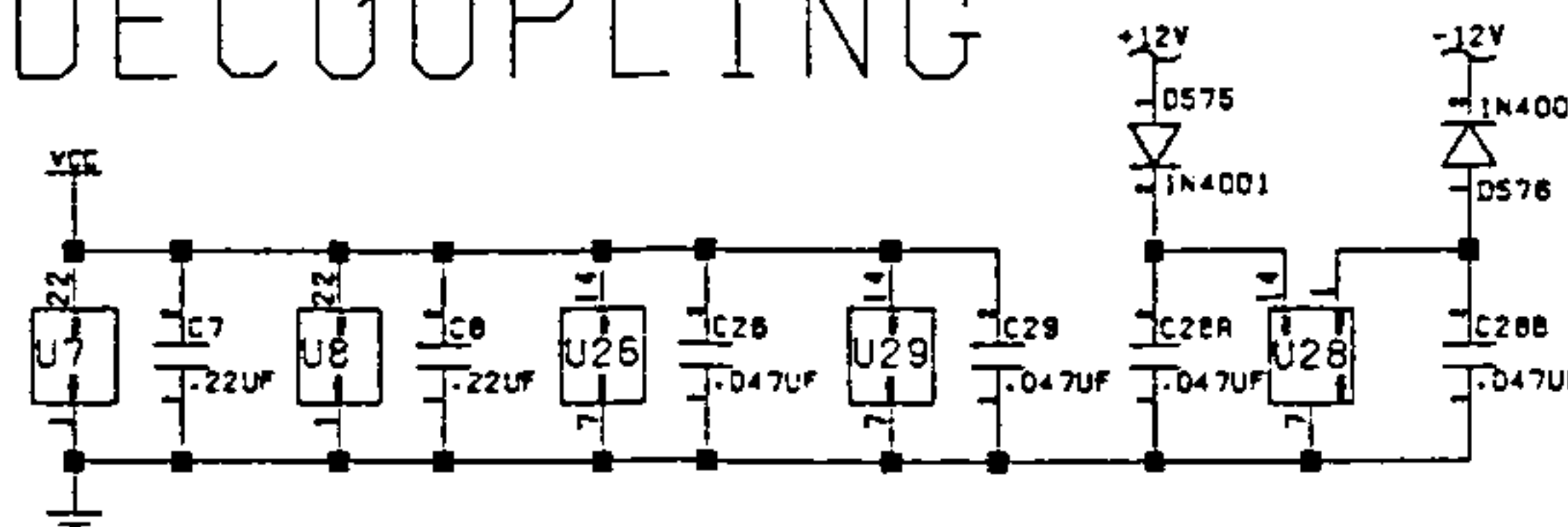
# FLOPPY LOGIC



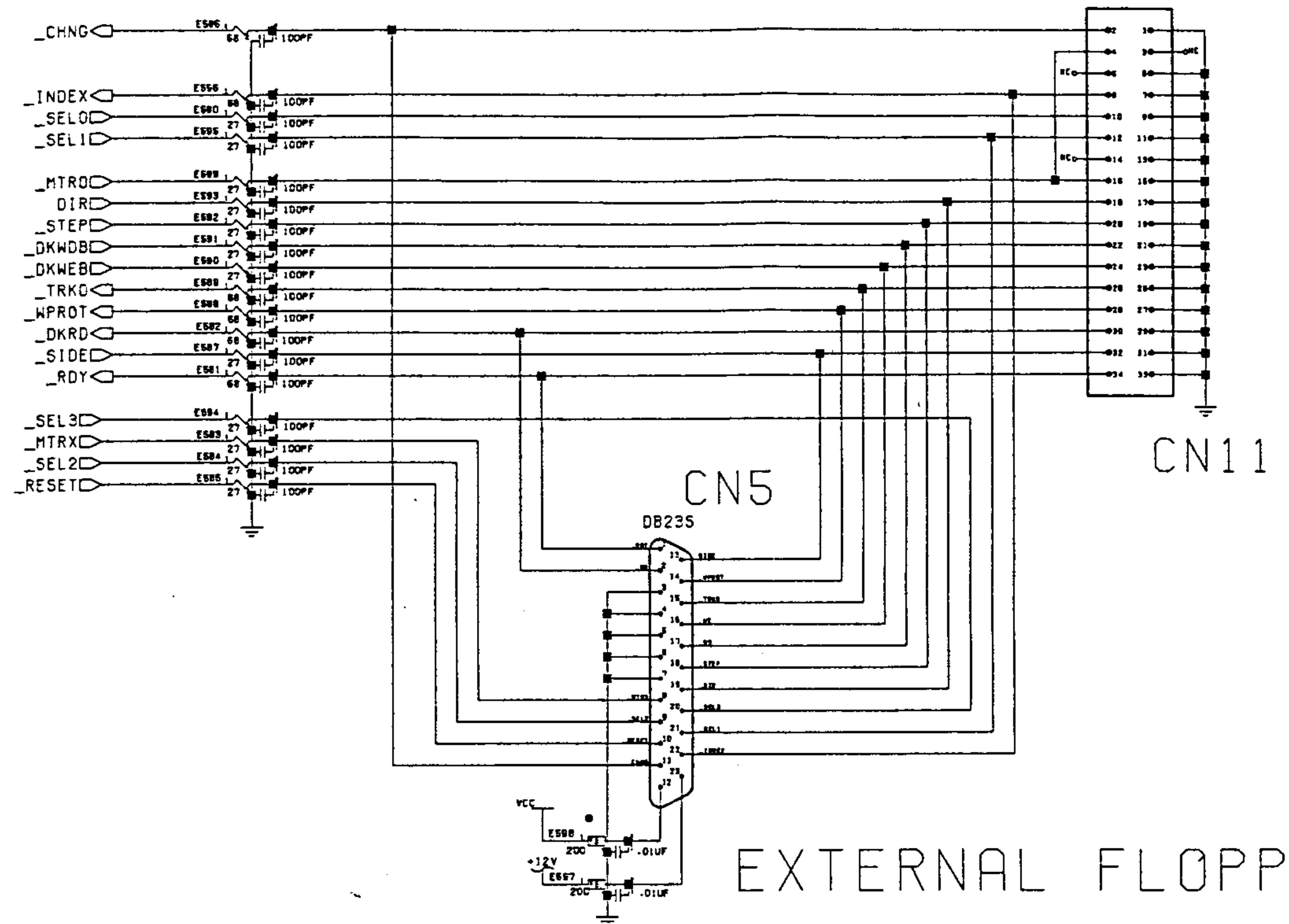
# FLOPPY POWER

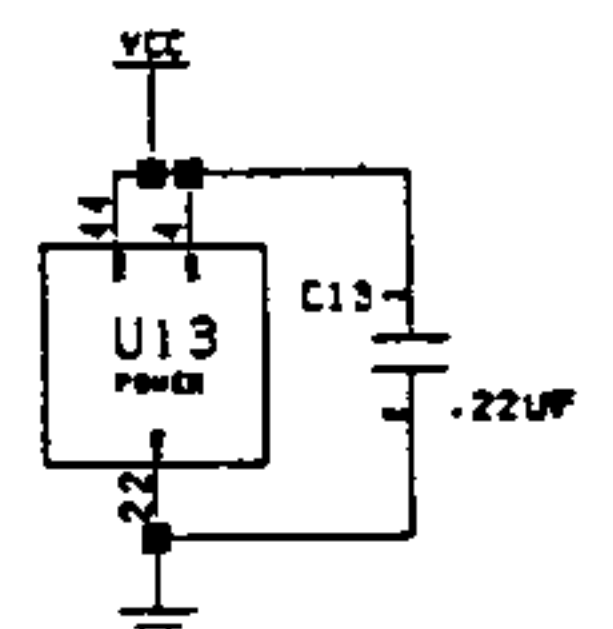
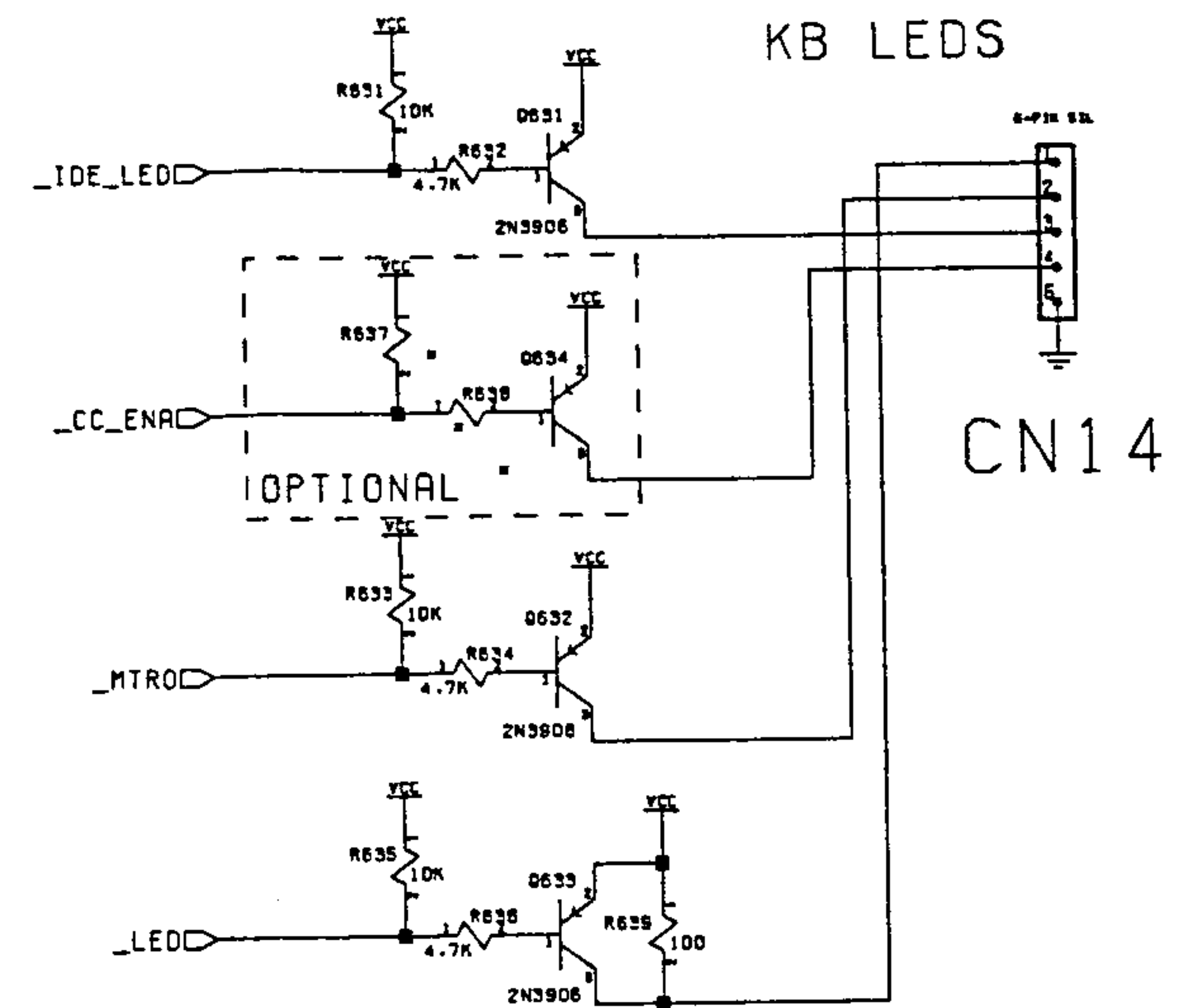


# DECOUPLING

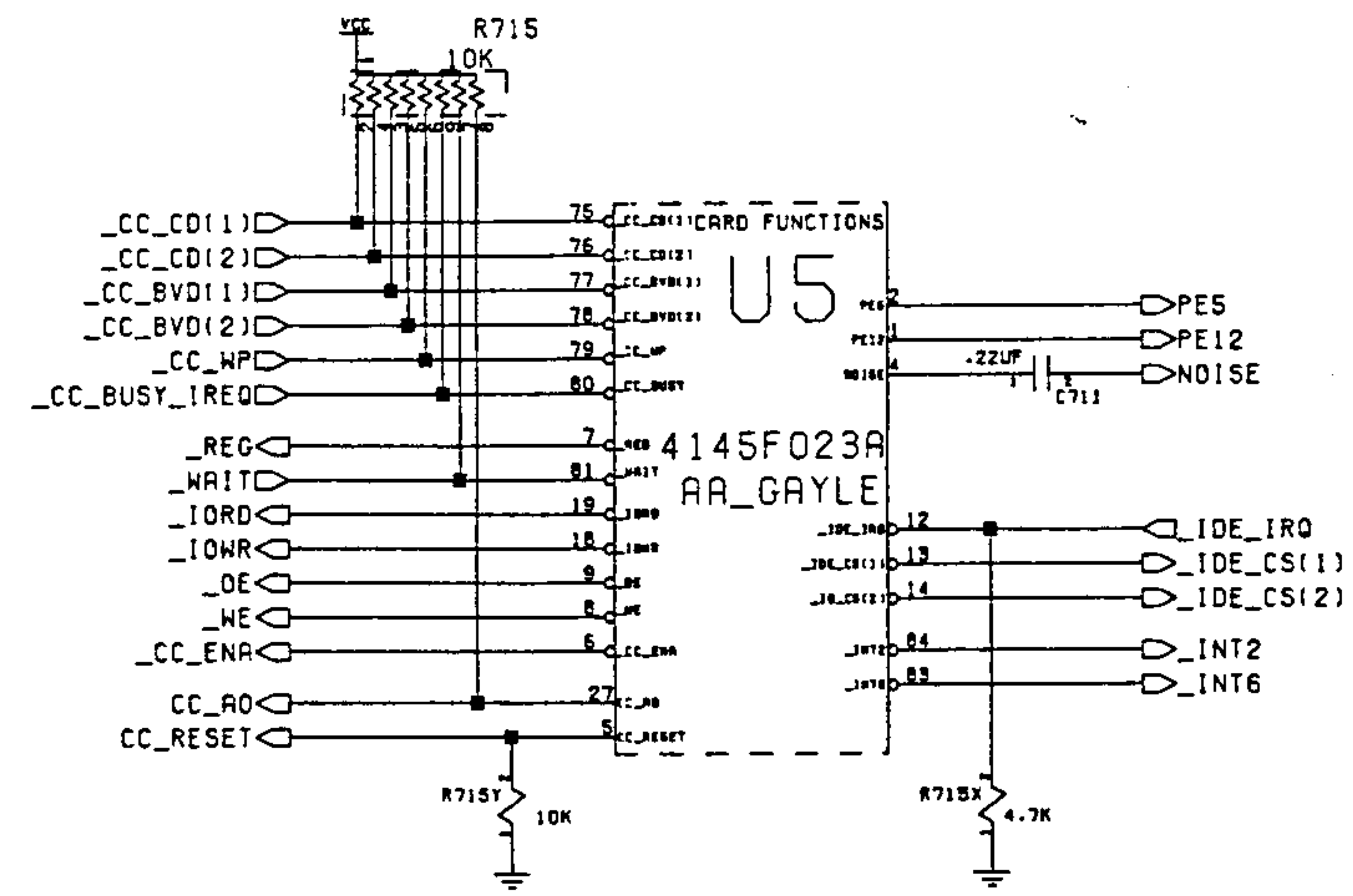


# INTERNAL FLOPPY



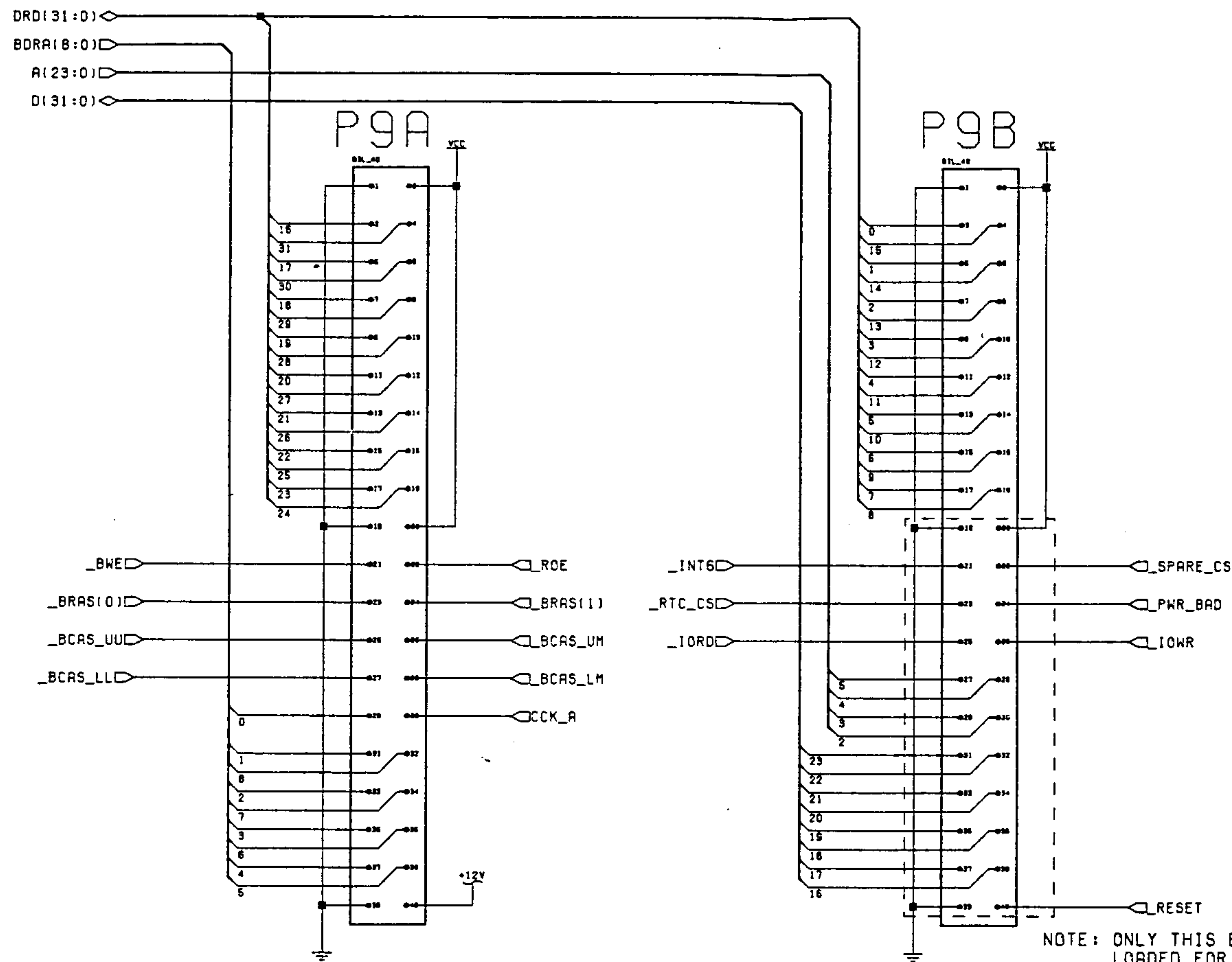


CN15

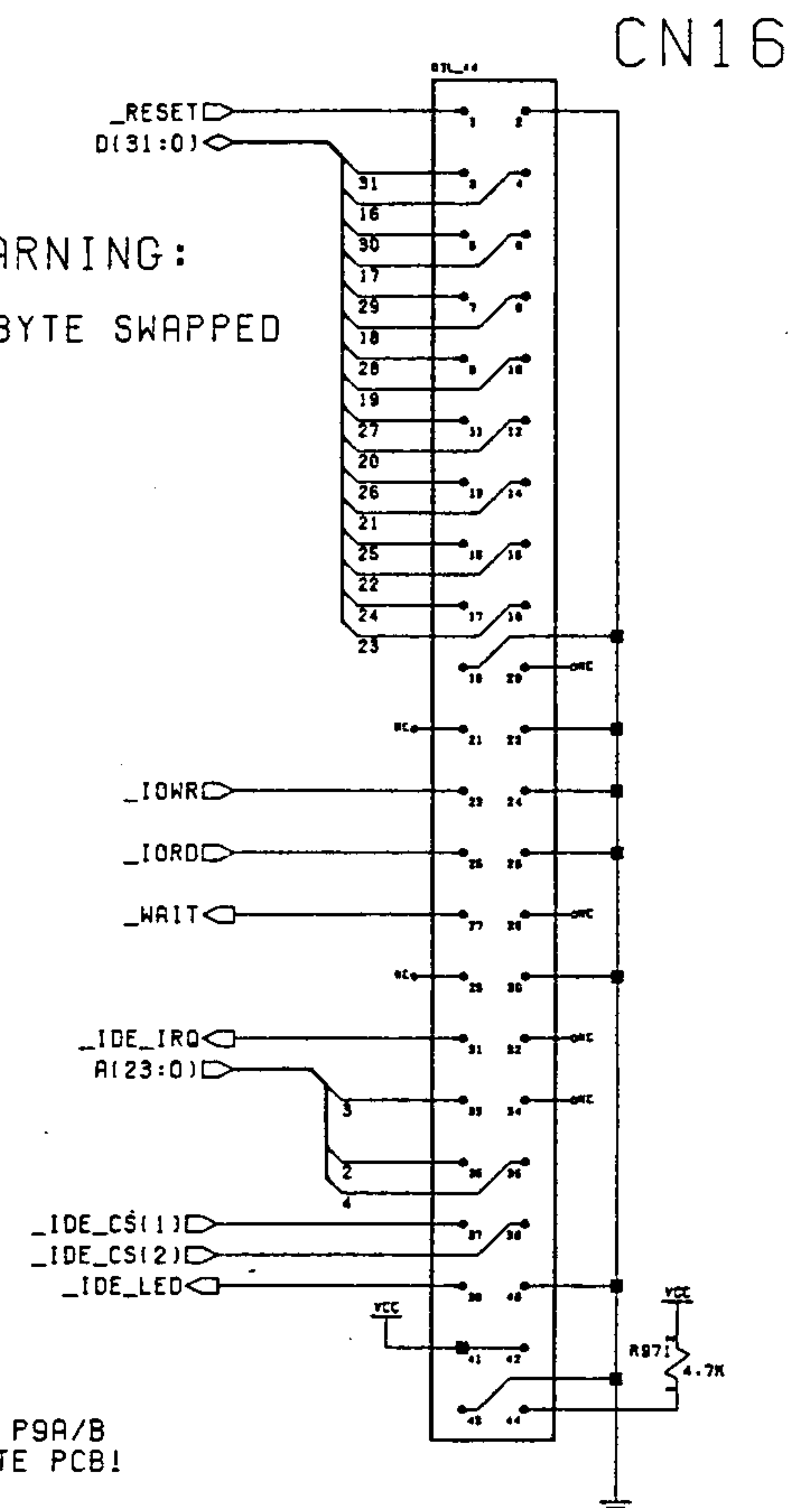


# MEMORY EXPANSION

# IDE DRIVE

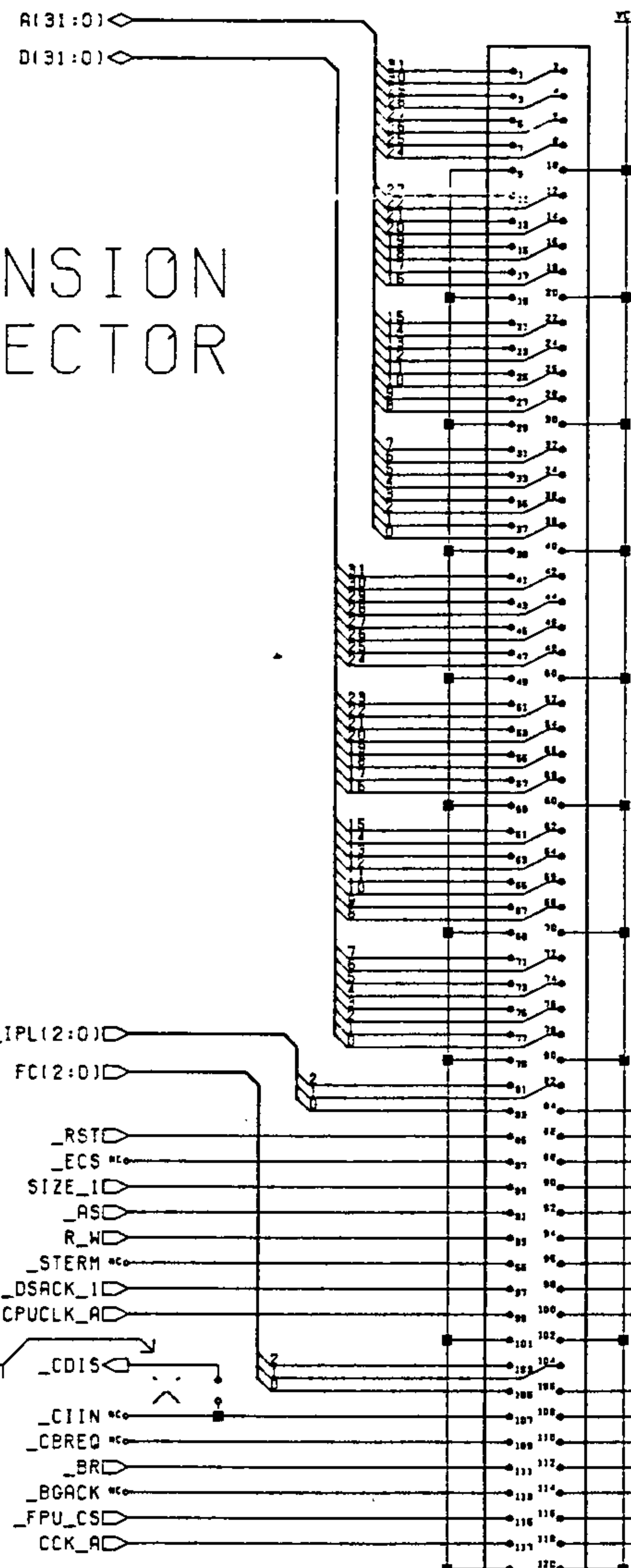


WARNING:  
BYTE SWAPPED



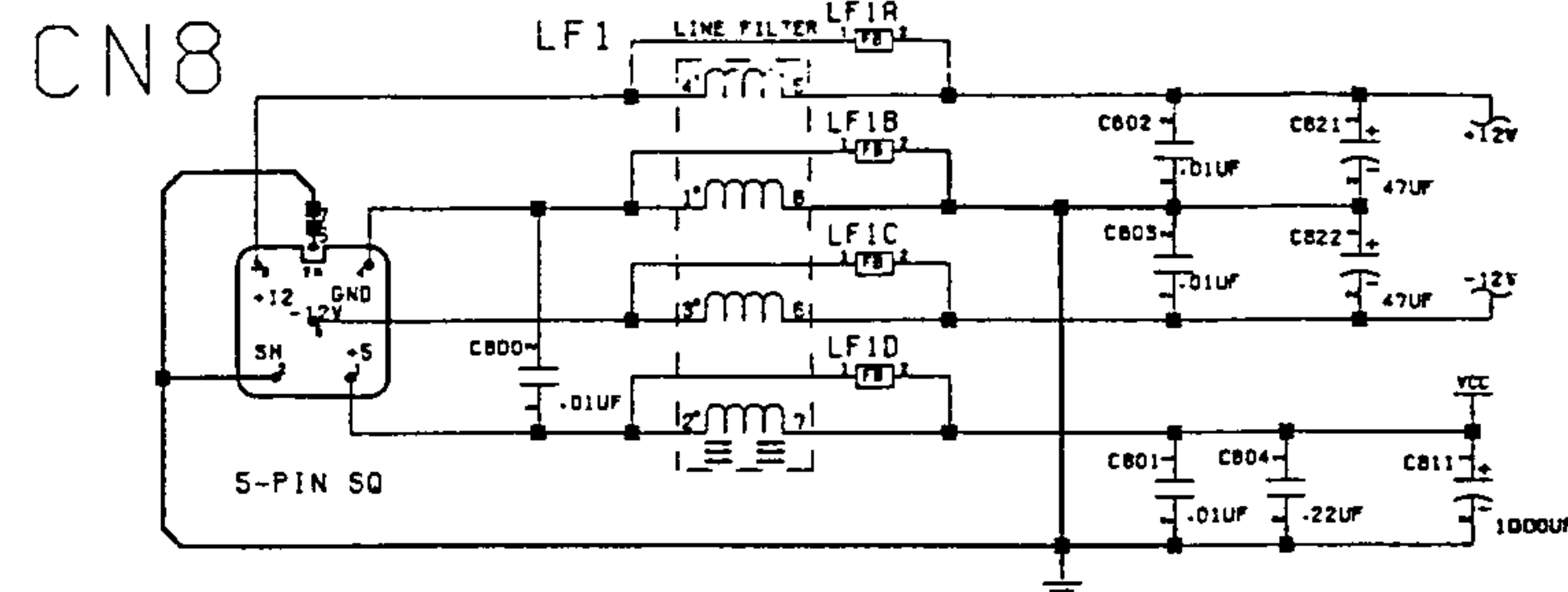


# EXPANSION CONNECTOR



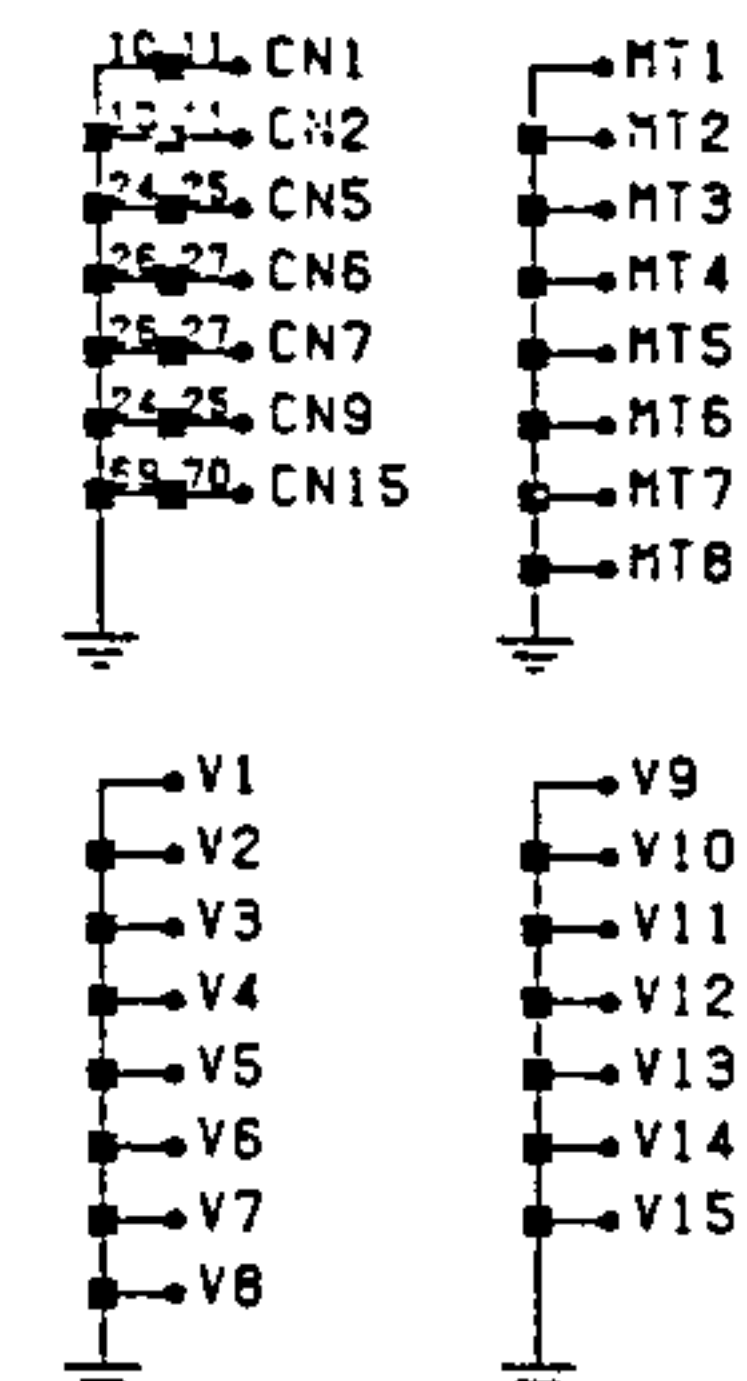
P1

# POWER INPUT

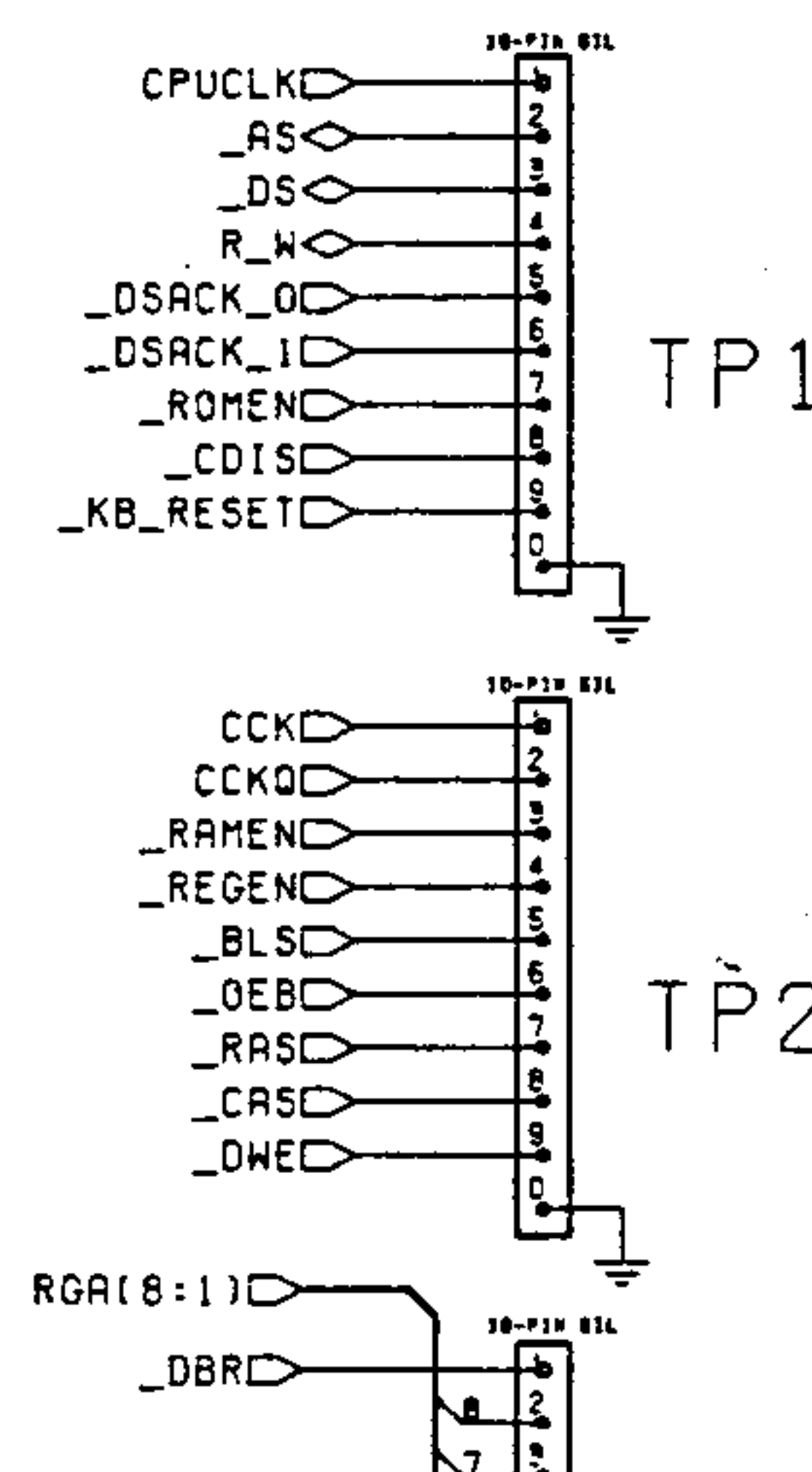


NOTE: HEAVY LINES INDICATE A SINGLE POINT CONNECTION

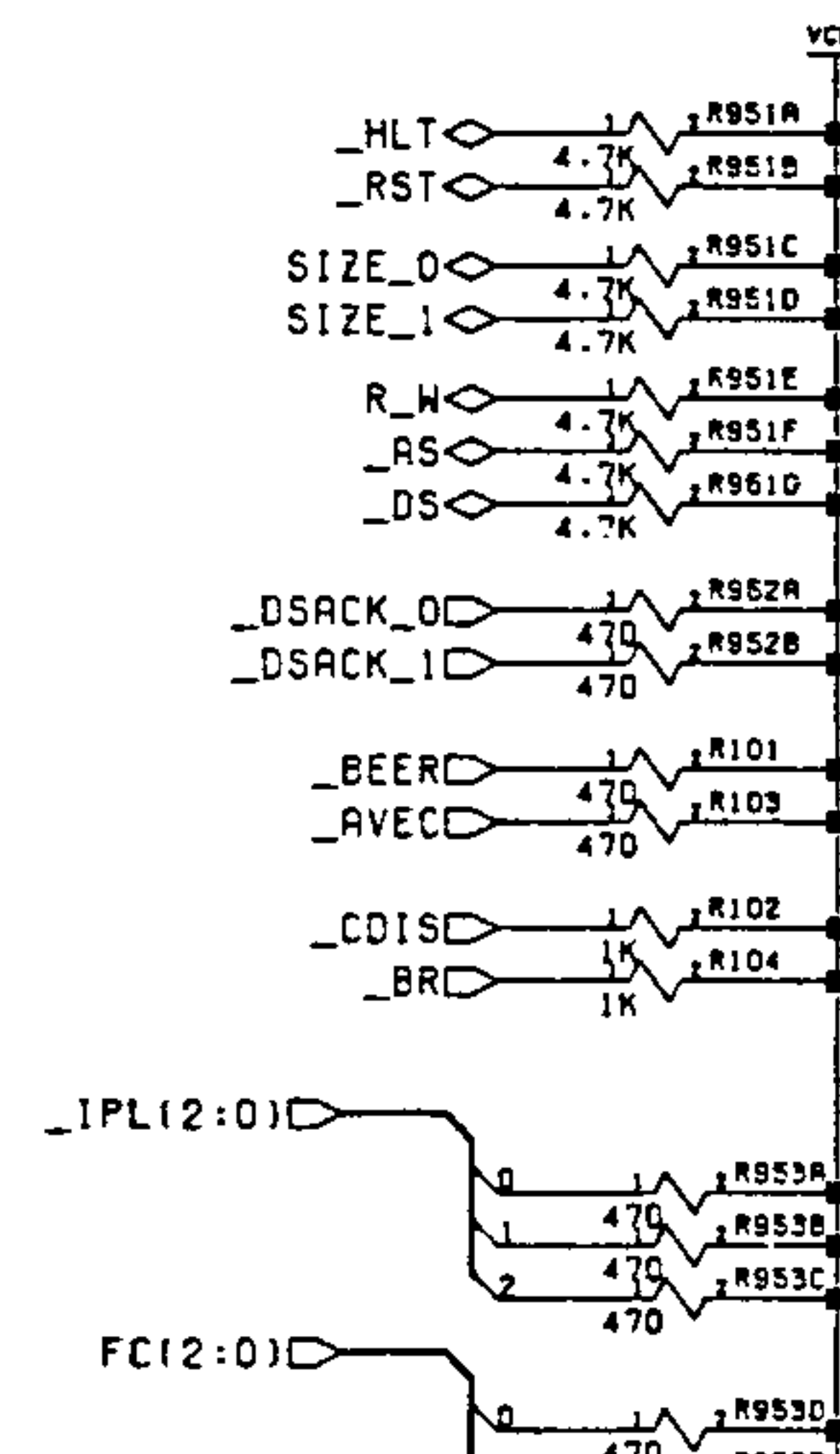
# HOLES & C.



# TEST ACCESS



# TERMINATION





[illegible]

REF	TYPE	DESCRIPTION	PAGE
CN1	DBSP	MOUSE / JOYSTICK 1	5
CN2	DBSP	MOUSE / JOYSTICK 2	5
CN3	RCE-1	RIGHT AUDIO OUTPUT	5
CN4	CE	VIDEO OUTPUT	5
CN5	DE235	EXTERNAL FLOPPY	6
CN6	DB25F	RS232 SERIAL PORT	7
CN7	DE25F	PARALLEL PRINTER PORT	7
CN8	SD-1IN	POWER SUPPLY CONNECTOR	8
CN9	DE-15	8	
CN10	RCA-2	COMPOSITE VIDEO	8
CN11	DIL-34	INTERNAL FLOPPY SIGNALS	8
CN12	SIL-4	INTERNAL FLOPPY POWER	8
CN13	HEH-30	KEYBOARD MEMORANE	9
CN14	HEH-30	KEYBOARD POWER	9
CN15	HEH-30	KEYBOARD MEMORANE	9
CN16	SIL-4	KEYBOARD STATUS LED'S	9
CN15	PCMCIA	PC MEMORY CARD*	11
P8	EDGE-6	MEMORY BUS EXPANSION	12

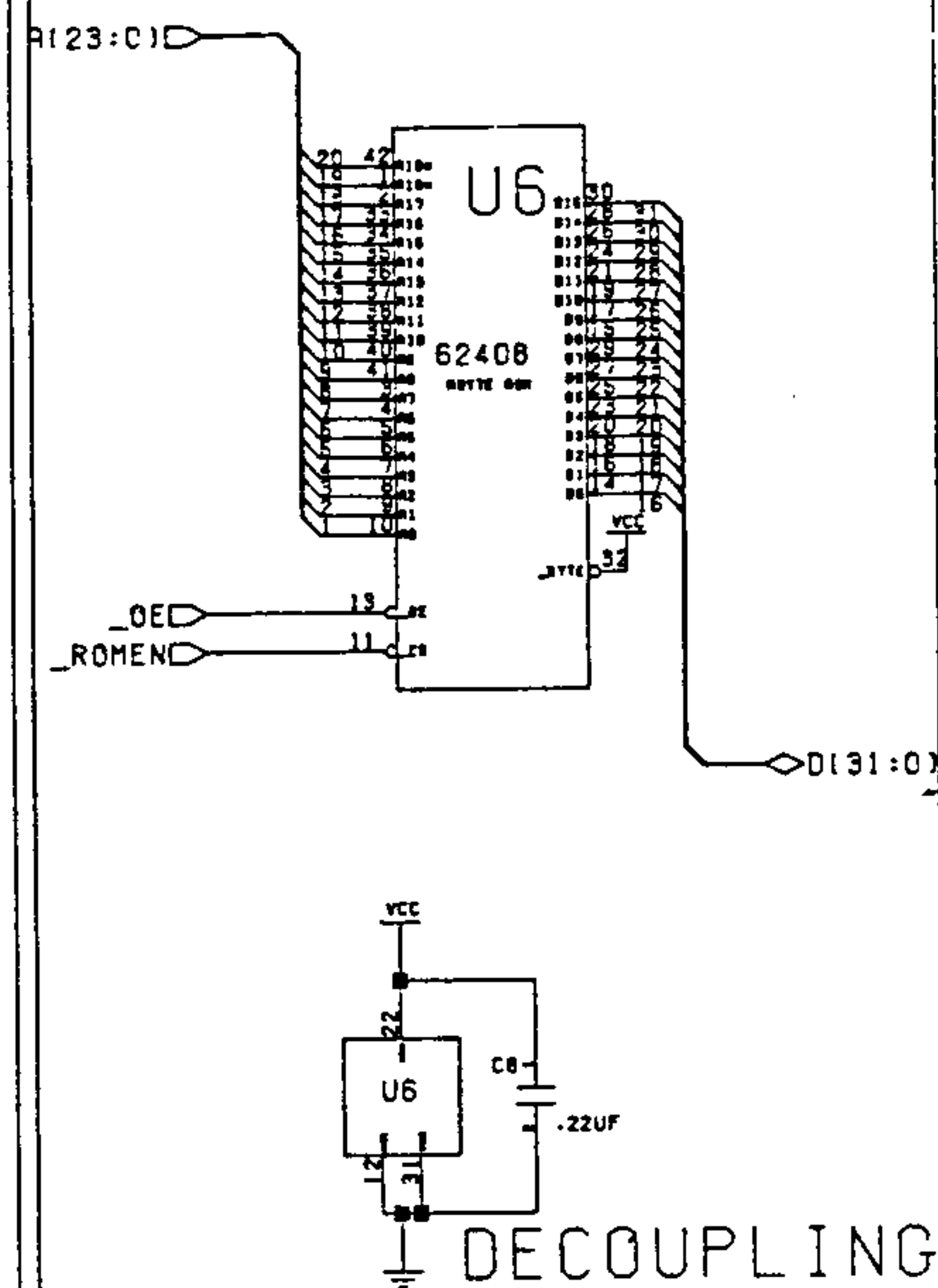
SIGNAL	DESCRIPTION (AREA)	PAGES
28MHZ	28.63636 MHZ MASTER CLOCK	
7MHz	7.15509 MHZ PROCESSOR CLOCK	
A[23:1]	PROCESSOR ADDRESS BUS (68000)	
ACK	DATA ACKNOWLEDGE (PARALLEL PORT)	
AS	ADDRESS STROBE (68000)	
AUDIN	AUDIO INPUT (RS232 PORT)	
AUDOUT	AUDIO OUTPUT (RS232 JACK)	
BEF	BUS ERROR (68000)	
BG	BUS GRANT (68000)	
BGRACK	BUS GRANT ACKNOWLEDGE (68000)	
BLISS	BLITTER SLOWDOWN (CHIPS)	
BLIT	CHIP MEMORY REQUEST (CHIPS)	
BR	BUS REQUEST (68000)	
BUSY	DEVICE BUSY (PARALLEL PORT)	
CASL/U	COLUMN ADDRESS STROBE (DRAM)	
CLK/CKCK	COLOR CLOCK / QUADRATURE (CHIPS)	
CDAC	7.15509 MHZ QUADRATURE CLOCK (CHIPS)	
CMNG	MEDIA CHANGE (FLOPPY)	
CLKD/WR	CLOCK / WRITE (RTC)	
CMMP	MONOCROME COMPOSITE VIDEO (VIDEO)	
CSYNC	COMPOSITE SYNC (VIDEO)	
CTS	CLEAR TO SEND (RS232 PORT)	
D[15:0]	PROCESSOR DATA BUS (68000)	
DIR	STEP DIRECTION (FLOPPY)	
DISK0	DISK READ DATA (FLOPPY)	
DRWD	DISK WRITE DATA (FLOPPY)	
DWWE	DISK WRITE ENABLE (FLOPPY)	
DMPL	CHIP DMA REQUEST LINE (CHIPS)	
DRAR[8:0]	DRAM ADDRESS BUS (DRAM)	
DRAT[15:0]	DRAM DATA BUS (DRAM)	
DSR	DATA SET READY (RS232 PORT)	
DTRACK	DATA TRANSFER ACKNOWLEDGE (68000)	
DTR	DATA TERMINAL READY (RS232 PORT)	
E	PERIPHERAL ENABLE CLOCK (68000)	
EXTICK	EXPANSION PRESENT / RTC TICK	
FX[2:0]	FUNCTION CODE (68000)	
FXBF[0:1]	FX4 BUTTON 0/1 (CHIPS)	
HY	PROCESSOR HALT (68000)	
HSYNC	HORIZONTAL SYNC (VIDEO)	
INDEX	INDEX PULSE (FLOPPY)	
INT[2,3,6]	INTERRUPT REQUEST (CHIPS)	
IORESET	I/O RESET	
IP[12:0]	INTERRUPT PRIORITY LEVEL (68000)	
KBCLK	KEYBOARD CLOCK (KEYBOARD)	
KBDATA	KEYBOARD DATA (KEYBOARD)	
KBRFSET	KEYBOARD RESET (KEYBOARD)	
LDS/VDS	UPPER / LOWER DATA STORES (68000)	
LED	POWER ON LED / AUDIO FILTER DISABLE	
LEFT/R/HT	LEFT RIGHT AUDIO (AUDIO)	

SIGNAL	DESCRIPTION (AREA)	PAGES
LPFN	LIGHT PEN TRIGGER (JOYSTICKS)	
MTR	MOTOR ON (FLOPPY)	
MRO	MOTOR ON - DRIVE 0 (FLOPPY)	
MOV/MOH	HOUSE 0 QUADRATURE V/M (JOYSTICKS)	
MIV/MIH	HOUSE 1 QUADRATURE V/M (JOYSTICKS)	
CV	OVERLAY ROM OVER RAG	
OVR	OVERLIDE SYSTEM DECODING	
PIXELSH	GENLOCK PIXEL SWITCH (VIDEO)	
PATOX/OY	POT LINES 0 X/Y (JOYSTICKS)	
POTIX/IY	POT LINES 1 X/Y (JOYSTICKS)	
PCU	PAPER OUT (PARALLEL PORT)	
PPD(7:0)	PARALLEL PORT DATA (PARALLEL PORT)	
RMEN	RAM ENABLE (CHIPS)	
REGEN	CHIP REGISTER ENABLE (CHIPS)	
R-SO/I	ROW ADDRESS STORE (DRAM)	
R1Y	DRIVE READY (FLOPPY)	
RESET	GENERAL RESET	
RGAB(1:1)	REGISTER ADDRESS BUS (CHIPS)	
R/G/B	RED / GREEN / BLUE (VIDEO)	
RI	RING INDICATE (RS232 PORT)	
RMEN	ROM ENABLE (ROM)	
RIC	REQUEST TO SEND (RS232 PORT)	
RST	PROCESSOR RESET (68000)	
R/D	RECEIVE DATA (RS232 PORT)	
RD	PROCESSOR READ/WRITE (68000)	
SEL	SELECT (PARALLEL PORT)	
SEL(3:0)	DRIVE SELECT (FLOPPY)	
SIDE	SIDE SELECT (FLOPPY)	
STEP	STEP IN/OUT COMMAND (FLOPPY)	
TKO	TRACK ZERO SENSE (FLOPPY)	
T/D	TRANSMIT DATA (RS232 PORT)	
VMA	VALID MEMORY ADDRESS (68000)	
VPA	VALID PERIPHERAL ADDRESS (68000)	
VSYNC	VERTICAL SYNC (VIDEO)	
WE	WRITE ENABLE (DRAM)	
WPRTY	WRITE PRATE SENSE (FLOPPY)	
XLCK	EXTERNAL GENLOCK CLOCK (VIDEO)	
XLKEN	EXTERNAL GENLOCK ENABLE (VIDEO)	
XRDY	EXTERNAL DATA READY	
	== CREDIT CARD AND IDE STUFF? ==	

[illegible]

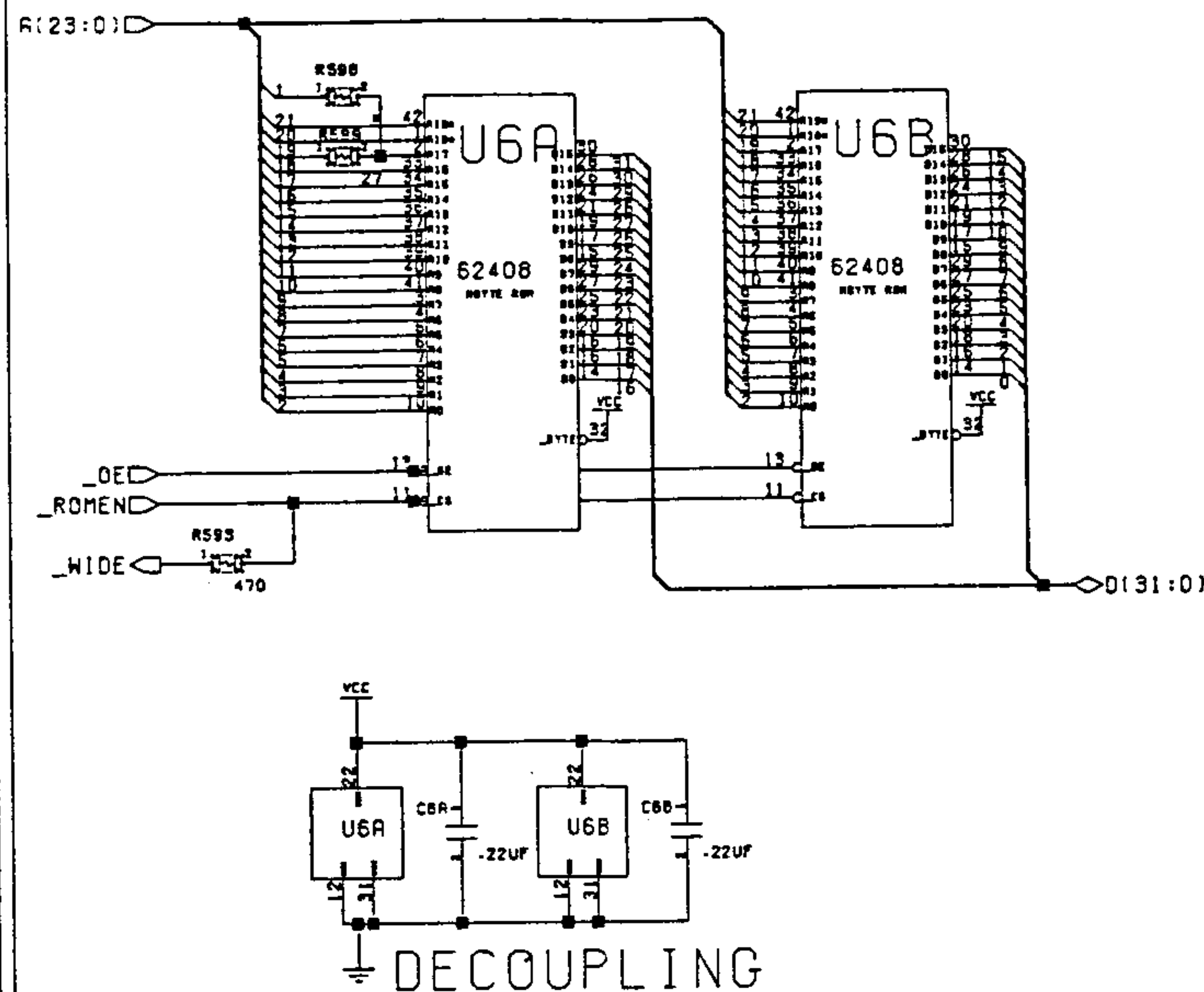
REF	CHIP	DESCRIPTION	PAGE
U1	68000	68000 PROCESSOR 16MHZ	2
U2	8374	ALICE (AP AGNUS)	2
U3	8362	PAULA	4
U4	424	LISA IAA DENISE	5
U5	F023A	AA GAYLE (CAB ASIC)	2, 8, 11
U6	ASST	ROM 512KX16 150 NS	10
U7-B	28F0	RAMGA V16 1 MHZ	7
U10-11	28F10	FLASH MEMORY 128KXB	10
U12	74154	CNT V154	4
U13	56LM05	RAMICA KEYBOARD CPU	3
U14	PS151	LOW VOLTAGE SENSE IC	9
U15	LF347	BMCS OP-AMP	5
	T1093	BMCS OP-AMP	5
U16-17	ASST	DRAM 256KX16 80NS	3
U18-19	Q331	DRAM 256KXB OPTIONAL	3
U20	1331???	BUOGE (ASIC)	3
U28	1488	EIA LINE DRIVER	7
U29	1489	EIA LINE RECEIVER	7
U30	BT101	TRIPLE 8-BIT VIDEO DAC	4
X1	OSC	TTL 28.63536 MHZ NISC	2
	OSC	TTL 28.37512 MHZ PAL	2
Y151	X1A1	4.43619MHZ PAL BURST	4
Y621	X1A1	3MHZ CERAMIC RESONATOR	9
X2	ASST	PAL VIDEO MODULATOR	4
	ASST	NISC VIDEO MODULATOR	4

## 16-BIT ROM



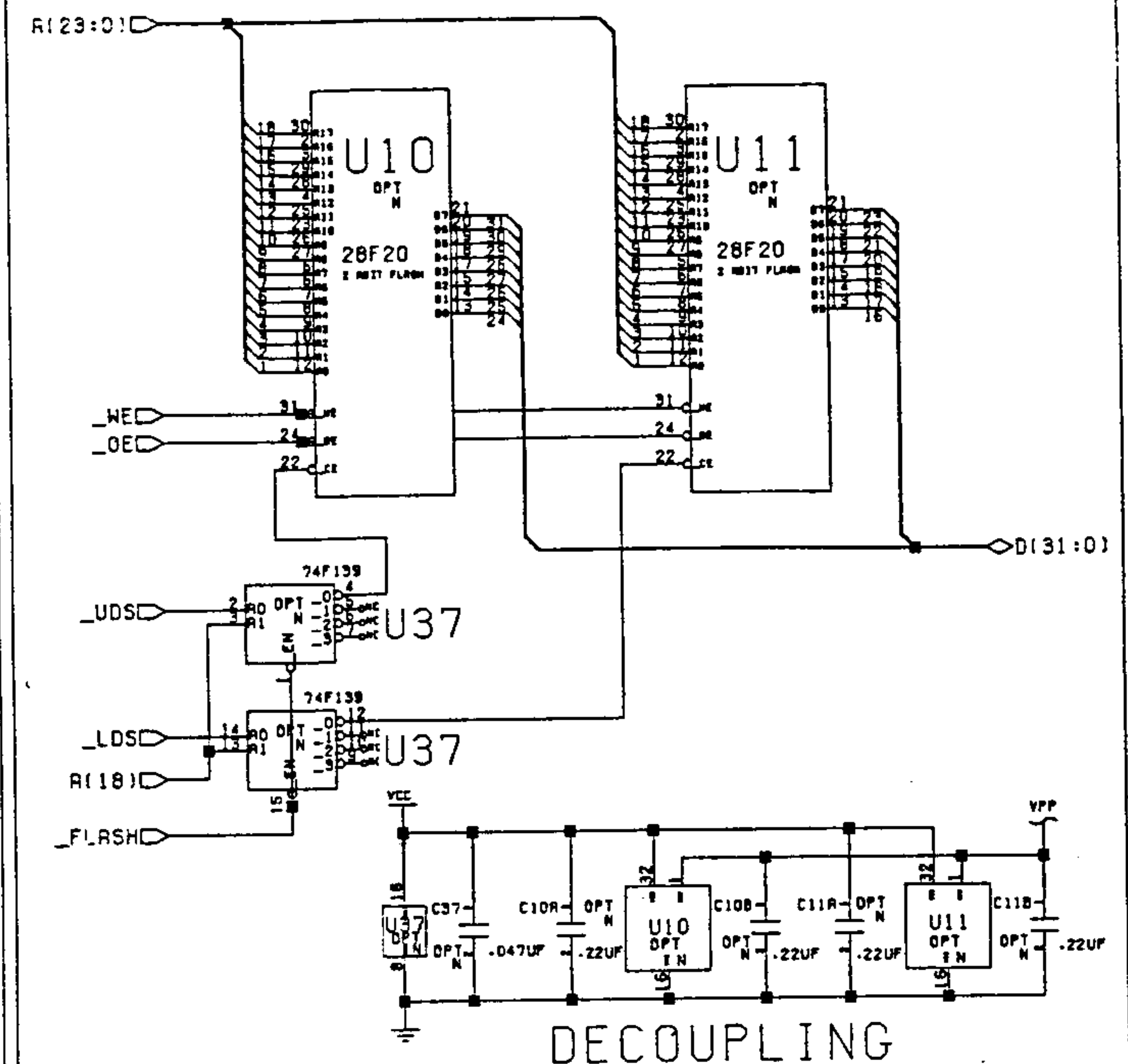
IF ROM16="YES"

## 32-BIT ROM



IF ROM32="YES"

## FLASH MEMORY

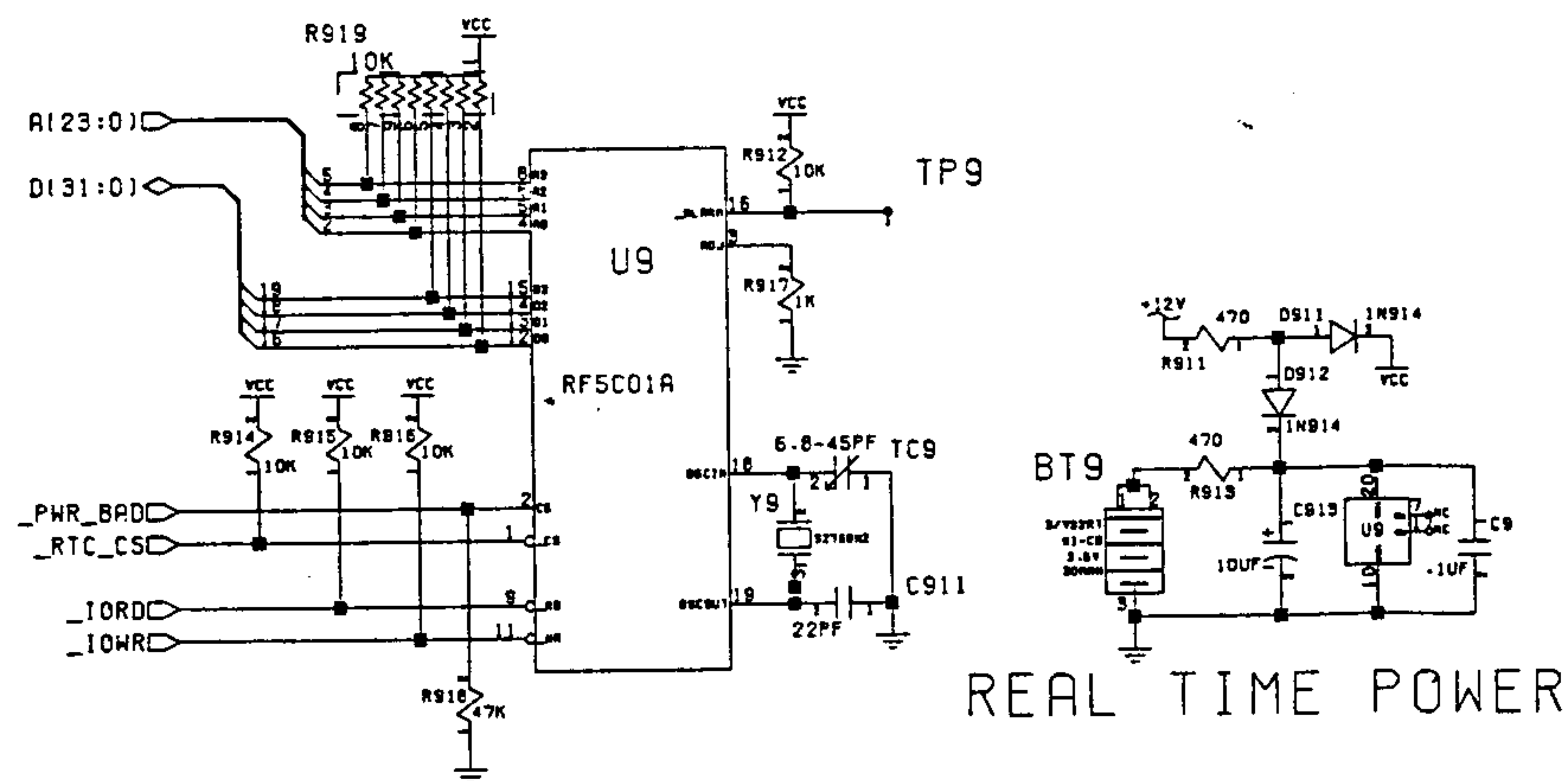


IF FLASH="YES"

16 AND 32-BIT SOCKETS MAY OVERLAP!

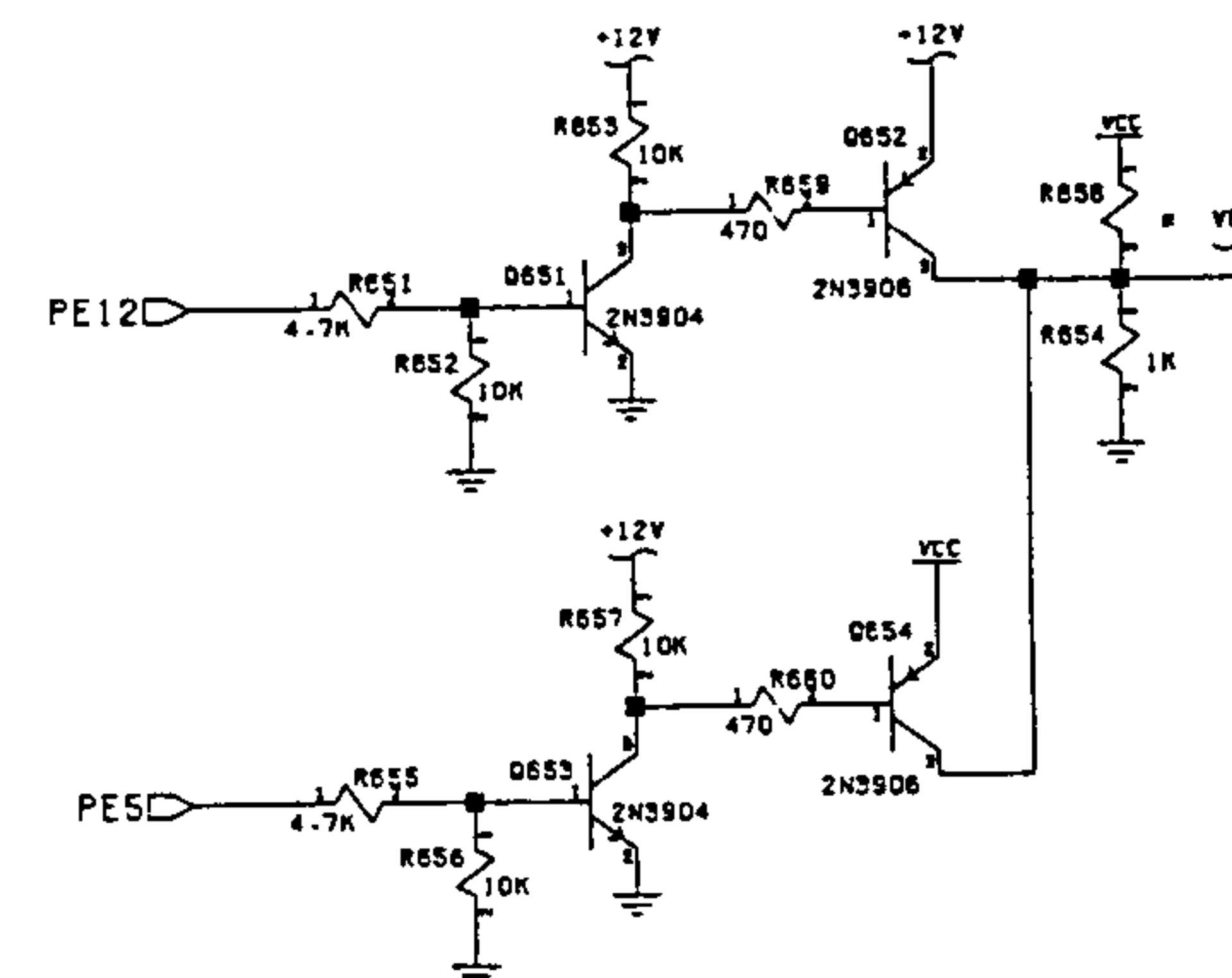
## OPTIONAL FLASH MEMORY

## REAL TIME CLOCK



IF RTC="YES"

## PROGRAMMING VOLTAGE



OPTIONAL REAL-TIME CLOCK/CALENDAR

A1200 REV 1->1D PCB

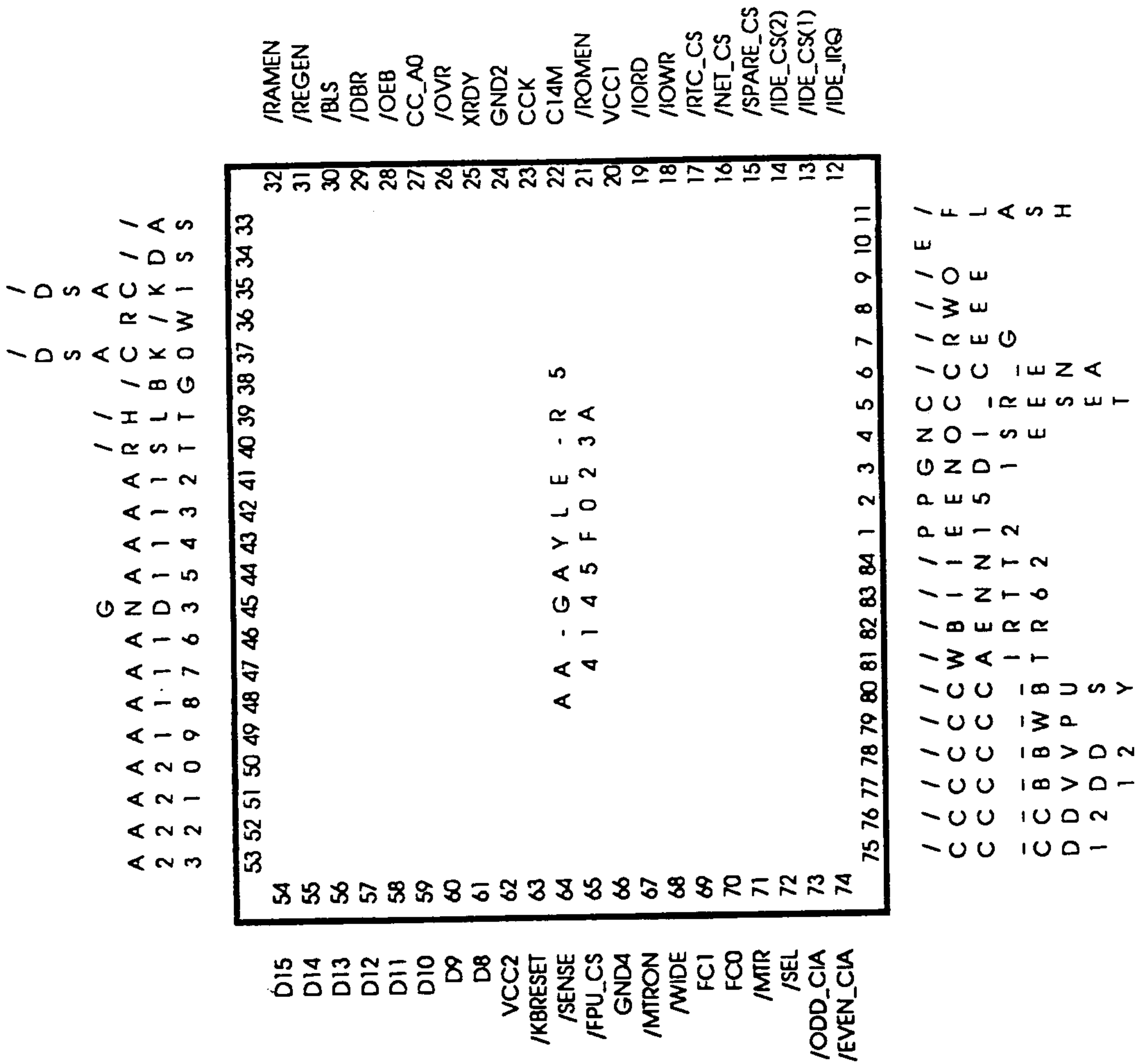


Figure 5-5. AA-GAYLE

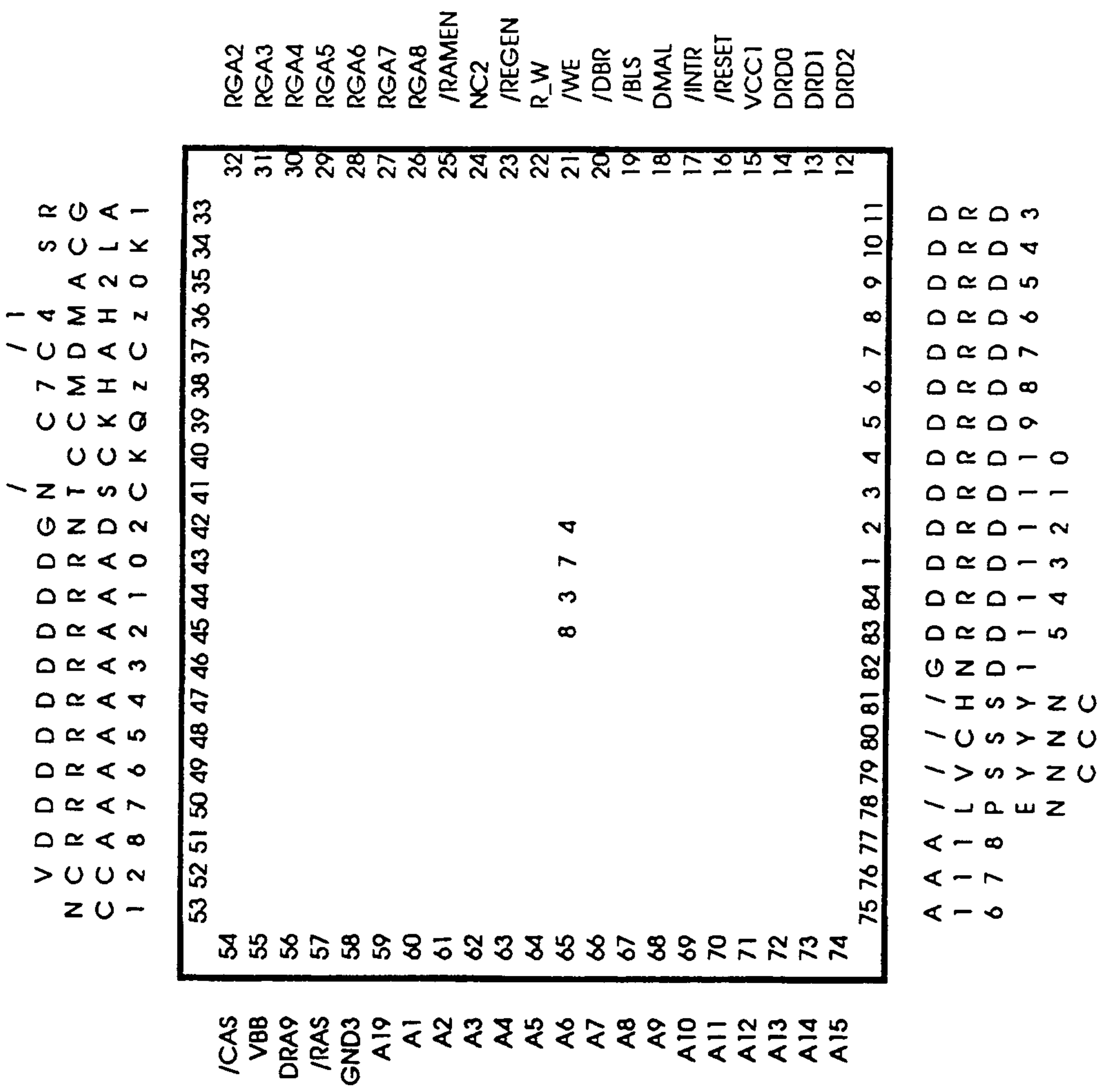


Figure 5-3. ALICE

[illegible]

D(31:0) 

A(23:0) 

FC(2:0) 



NOTE: VARIOUS COMPONENTS ARE FOR EMI CONTROL  
AND MAY BE LOADED WITH FUNNY THINGS...







# MOUSE/JOYSTICK PORTS

